fis
FIBER INSTRUMENT SALES, INC.

2012 Product Catalog

Your Fiber Optic Information Source

NFOC Conference

Spec Sheets

WaveLengths Magazine

Communicator

Product Catalog

Fiber Optic Training

Live Tech Help

Website

Social Media

Tutorial Videos

Rentals

www.fiberinstrumentsales.com

Communication Fiber Optic Experts

1-800-5000-FIS(347)

Why We Are the Fiber

NFOC Conference

The Northeast Fiber Optic Conference (NFOC) provides telecom and datacom professionals with the opportunity to attend educational sessions presented by industry experts. These sessions address new fiber optic technologies and applications as well as the business opportunities they present. Dozens of the world's top companies exhibit their products at the NFOC each year. FIS is the founder and principal sponsor of the event.

Product Catalog

The FIS Product Catalog is an informative publication, brimming with hundreds of product photos and descriptions. The comprehensive FIS Catalog has even served as an educational tool in technical schools, enabling students to see the newest tools and technologies available to network technicians.

WaveLengths Magazine www.wavelengthsmagazine.com

Upbeat and informative, WaveLengths Magazine provides you with a broad understanding of topics relating to the Telecom and Datacom industries. Coverage includes new technology, industry trends, network installation, testing and more. If you work with fiber optics, copper or wireless technologies, Wavelengths is the magazine for you.

Our full-color Print Edition is approximately 40 pages in length. Our Online Edition has additional content including audio, video, and interactive features (wavelengthsmagazine.com). Both editions are available FREE to FIS customers!

Website   www.fiberinstrumentsales.com

In addition to online shopping, the FIS website offers a wealth of information to make your job easier and more productive. Spec sheets, white papers, training videos, Communicator Newsletter and WaveLengths Magazine – all are all accessible online.

Live Tech Help

Our tech support engineers and technicians are available by phone as well as online, via our website. You can even access our President and CEO, Frank Giotto. Just click on the link, "Ask the President" and receive a personal reply from the CEO himself!

Communicator Newsletter

This monthly publication is a great tool for helping you make informed purchase decisions. For example, various issues of Communicator have provided guidance in selecting the right fusion splicer, OTDR, splice closure and more. Refer to these Communicator "buying guides" when making important purchase decisions. All issues are available in the Communicator Archives on the FIS website.

Tutorial Videos

Fusion splicing, fiber termination and network testing are just a few of the informative FIS videos available to you. Videos can be accessed through the FIS Website and via WaveLengths Online Magazine. Clear and concise, FIS tutorial videos are the next best thing to receiving classroom training.

Rentals

Renting equipment from FIS is a great way to save money. Renting can also provide you with valuable hands-on experience using various types of equipment. For example, if you are considering purchasing a fusion splicer or OTDR, you can "try before you buy." Our knowledgeable rental staff can provide information about the operation and capabilities of each device. Various rental models are available with a financing option if you decide that you wish to purchase the unit.

Optic Information Source

Fiber Optic Training

'FIS University' was founded in 1995 and has trained over 10,000 professionals in both basic and advanced techniques related to network connectorization and testing. Students receive hands-on training in how to use fusion splicers, OTDR's and other equipment. FIS training classes are held in cities throughout the U.S. and abroad. Corporate training is available at your place of business and can be customized to your needs.

Spec Sheets

Do you require more information about the products in our Catalog? FIS Spec Sheets provide the detailed specifications you need to ensure that products meet the requirements of your particular application. Spec Sheets are available on our website.

Social Media

FIS Social Media resources include Facebook, Twitter and various Online Blogs. FIS social media channels are a great way to share your thoughts, opinions and ideas with FIS as well as your fellow technicians. Let your voice be heard, and stay informed of the latest industry news.

FIBER INSTRUMENT SALES

President's Message

Things are looking up! The fiber optic market has proven its durability by surviving recent times of uncertainty. Also, indications are that stimulus money will have a lasting positive impact as outside plant installs evolve into new local applications. I believe that stimulus-related opportunities in 2012 will exceed 2011, provided that government agencies are able coordinate their efforts.

This being a presidential election year also adds to the excitement; how will our industry be impacted by the election outcome?

FIS has three major objectives for 2012, all of which relate to improving customer service:

1. Free Information Resources - In 2012 FIS is investing heavily in informational programs on behalf our customers. In fact, we are well on our way toward becoming one of our industry's major centers of information, as shown by the FIS programs listed at the front of this catalog.

2. Introduce Innovative Products - In 2011, contractors discovered better ways to work and turned to FIS for the newest products and tools. For example, the popularity of the new FIS Splice-On Connector contributed to our 10% sales growth in 2011. FIS manufactured goods outpaced general sales in other lines as well. FIS is bringing more innovative products to the market in 2012, as shown in this catalog.

3. Ensure Product Availability - Product availability has always been a major strength of FIS and 2012 will be no exception. Maintaining a $10 million in-house product inventory is part of our commitment to you, our valued customer.

Finally, if you have a question, idea or concern, feel free to contact me direct. Just click on the Ask the President button on our website. You will receive the answer you need, and I'll get to demonstrate my personal commitment to providing you with exceptional customer service.

I welcome your comments!

Frank Giotto

Frank Giotto
President/CEO

EQUIPMENT

fis FIBER INSTRUMENT SALES, INC. · EXFO · AFL · FLUKE networks · JDSU · GREENLEE COMMUNICATIONS · Wilcom

Tempo · Anritsu Discover What's Possible™ · SEIKOH GIKEN · krell · GarrettCom Ethernet at its Best™ · SIGNAMAX · afi american fibertek

COMPONENTS

fis FIBER INSTRUMENT SALES, INC. · TLC The Light Connection · AFL · 3M · OCC OPTICAL CABLE CORPORATION · molex · SUPERIOR ESSEX · FIBERCORE LIMITED

USCONEC · MOHAWK Cabling Excellence for Open Architecture · CORNING · SEIKOH GIKEN · LEVITON · QUEST TECHNOLOGY INTERNATIONAL Inc. · HCM Hitachi Cable Manchester

HARDWARE & TOOLS

fis FIBER INSTRUMENT SALES, INC. · PLP PREFORMED LINE PRODUCTS · 3M · MILLER® · GREENLEE COMMUNICATIONS · Raychem® · Cablematic CABLE PREPARATION TOOLS

COOPER B-Line · SEIKOH GIKEN · LEVITON · RIPLEY® · Middle Atlantic Products, Inc. · CablePrep · Multilink

THE FIS SUCCESS TEAM

Kirk Donley
Sr. Vice President of Sales
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Tom Joslin
Vice President of International Sales
Ext. 2122

Shawn Lawlor
Vice President of Marketing
Ext. 2107

Cindy Marino
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Training & Technical Service Manager
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Region 1 ● Region 2 ● Region 3 ● Region 4 ● International ●

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Ext. 2116

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Maryjo Marino
Int'l Sales Associate
Ext. 2175

Brett Morgan
Int'l Sales Associate
Ext. 2113

Melba Arango
Int'l Sales Associate
Ext. 2158

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The Key to Success is Working with FIS!

Creative Ways We Serve You Better!

Promotions

Cheetah
Splice-On Connector

Buy 2490 Cheetah SOCs and Receive a Free Splicer
See pg. 63

Anritsu
Discover What's Possible™

3 YEAR WARRANTY

FIS has teamed up with Anritsu to bring you the best warranty in the industry. For a limited time, when you purchase an Anritsu MT9083 OTDR you will receive a 3 year factory warranty from Anritsu.
See pg. 36

Ask About our Polish Process Featuring Our Cost Saving One Step Films.

Cable Assembly Partnership Program

FIS has extended our product offering by adding OM3 10 Gigabit Cable, Furcation Tube, Break-out Kits, and Fan-out Kits. The most exciting addition is the new FIS Polish Machine along with a Revolutionary One-Step Diamond Film that will:

• **Lower your Material Cost**

• **Eliminate Multiple Diamond Films**

• **Provide Higher Yields!**

CAP
CABLE ASSEMBLY PARTNERSHIP PROGRAM

Please contact your FIS sales representative with any questions you may have about the CAP program. Fiber Instrument Sales will continue to seek "meet comp" opportunities and special pricing for large orders as our commitment to your company.

FISTV

Here you'll find an assortment of videos that are produced by FIS to showcase our people, products and capabilities.

Follow Us on Twitter:
@FiberExperts

Like Us On Facebook:
Fiber Instrument Sales

NFOC
NORTHEAST FIBER OPTIC CONFERENCE

The Northeast Fiber Optic Conference (NFOC) was developed to meet the growing training needs of the fiber optics industry.

fis Communicator

The FIS *Communicator* is a monthly newsletter that gives information on fiber optics, important dates and reviews technical questions.

WaveLengths Magazine

WaveLengths is a unique publication. It presents technical information in a lively and stimulating manner that aids in professional development.

SERVICES

FINANCE IT!

NEW PROGRAM!

- Popular way to Finance Test Equipment and Fusion Splicers
- 12-60 month terms
- Strengthen your financial status, keep your cash and stay liquid
- Down payments are not required
- Payments to fit your cash flow

EQUIPMENT RENTALS

Rent it!

OTDR RENTAL RATES

Choice of adapter and launch cable, if required

Dual Wavelength
850/1300nm or 1310/1550nm

EXFO FTB200v2

EXFO AXS 110

FIS DELUXE

ANRITSU MT9083

FIS DELUXE		ANRITSU MT9083A	
1 Week	$475.00	1 Week	$750.00
2 Weeks	675.00	2 Weeks	925.00
4 Weeks	875.00	4 Weeks	1,250.00

EXFO AXS 110		EXFO FTB 200v2	
1 Week	$575.00	1 Week	$600.00
2 Weeks	775.00	2 Weeks	800.00
4 Weeks	975.00	4 Weeks	1,025.00

Quad Wavelength
850/1300/1310/1550nm

EXFO FTB200v2

NOYES M200

FIS DELUXE

FTB 150

ANRITSU MT9083

EXFO FTB 200v2 / FTB 150		NOYES M200/FIS DELUXE	
1 Week	$750.00	1 Week	$575.00
2 Weeks	925.00	2 Weeks	775.00
4 Weeks	1,250.00	4 Weeks	975.00

ANRITSU MT9083A		NOYES M700 (LONG HAUL)	
1 Week	$750.00	1 Week	$775.00
2 Weeks	925.00	2 Weeks	975.00
4 Weeks	1,250.00	4 Weeks	1,295.00

CERTIFICATION KITS

C860 Kit

NOYES C860
Includes 1 NOYES C840
& 1 NOYES C850
Quad Certification Testers

1 Week	$1,225.00
2 Weeks	1,485.00
4 Weeks	1,925.00

C880 Kit

NOYES C880
Includes 2 NOYES C840
Quad Certification Testers

1 Week	$750.00
2 Weeks	925.00
4 Weeks	1,250.00

CD-PMD TESTING

FTB-5700-CD-PMD

EXFO
2-SLOT MODULE

1 Week	$2,275.00
2 Weeks	2,850.00
4 Weeks	3,795.00

*Mainframe included w/
FTB-400 or 200 (depending
on availability)

FUSION SPLICER RENTAL RATES

Fusion Splicers - includes cleaver, one spare set of electrodes, battery and charge cord

V-GROOVE

S123C

S153

FITEL S123C
(.05dB Singlemode Typical Splice Loss)

1 Week	$395.00
2 Weeks	495.00
4 Weeks	625.00

Cheetah SOC Compatible - Ask for Details

FITEL S153
(.04dB Singlemode Splice Loss)

1 Week	$700.00
2 Weeks	950.00
4 Weeks	1,350.00

Cheetah SOC Compatible - Ask for Details

MASS FUSION SPLICER
(.05dB Typical Splice Loss)

FSM-60R

AFL FSM-60R

1 Week	$1,225.00
2 Weeks	1,485.00
4 Weeks	1,925.00

F1-SOC-OVEN

SPLICE-ON CONNECTOR OVEN

1 Week	$30.00
2 Weeks	50.00
4 Weeks	80.00

CORE ALIGNMENT
(.02dB SinglemodeTypical Splice Loss)

F1-COUGAR2000

FIS SPLICER

1 Week	$600.00
2 Weeks	800.00
4 Weeks	1,025.00

Cheetah SOC Compatible - Ask for Details

AFL FSM-60S

1 Week	$1,025.00
2 Weeks	1,255.00
4 Weeks	1,695.00

Cheetah SOC Compatible
AFL FuseConnect Compatible
Ask for Details

FSM-60S

FITEL S178A

1 Week	$1,025.00
2 Weeks	1,255.00
4 Weeks	1,695.00

Cheetah SOC Compatible - Ask for Details

S178A

HAND HELD TEST EQUIPMENT RENTAL RATES

FIBER INSTRUMENT SALES, INC.

FIS PM & LS

FIS				
PM & LS	Singlemode or Multimode	1 Week	$120.00	
		2 Weeks	160.00	
		4 Weeks	195.00	
AFL				
PM & LS	Singlemode or Multimode	1 Week	$175.00	
	Downloadable Power Meter	2 Weeks	235.00	
		4 Weeks	295.00	
EXFO				
PM & LS	Singlemode or Multimode	1 Week	$175.00	
	Downloadable Power Meter	2 Weeks	235.00	
		4 Weeks	295.00	
MaxTester (pair)	Singlemode	1 Week	$695.00	
		2 Weeks	850.00	
		4 Weeks	1,150.00	
MaxTester	Probe or	1 Week	$110.00	
Extras	Talk Set	2 Weeks	150.00	
		4 Weeks	200.00	

EXFO

EXFO FOT-930 Max Tester

AFL

NOYES PM & LS

NEW 2 YOU

Fiber Instrument Sales, Inc. can save you money by providing a selection of pre-owned test and splicing equipment. We have demo models, trade-ins and overstock items available at 20% to 60% off the original price. FIS is also interested in purchasing or trading your pre-owned equipment. Please contact your FIS sales representative for more information on New 2 You Products.

FLUKE networks

COPPER TEST EQUIPMENT RENTAL RATES

FLUKE NETWORKS

DTX-1800120	Copper Cable Analyzer	1 Week	$425.00
		2 Weeks	550.00
		4 Weeks	695.00

EXFO DTX-1800

TRAINING CLASSES

Earn BICSI CECs for RCDD, LAN Specialist, and/or Installation! Earn Transferable College Credit! Earn a Certification Diploma!

FIS UNIVERSITY
PREMIUM FIBER OPTIC EDUCATION

As the nation's leading supplier of fiber optics, FIS founded FIS University in 1995 to meet the ever-growing demand for trained professionals within the fiber optic industry. Over the last fifteen years, FIS University has trained over 10,000 professionals in both basic and advanced techniques related to connectorization, testing and fiber optic splicing. Our training staff has over 18 years of industry experience consisting of both field and network engineering capacities. Call 1-800-500-0347 and ask our training coordinator to reserve your seat at one of our many locations nationwide, at Brightside-on-Raquette, or to discuss options to customize your own corporate training. New certification for FIS Splice-On connector now included with training package.

2012 TRAINING DATES

January 9-10	Jacksonville, FL	May 7-8	Washington, DC	September 3-4	Louisville, KY
January 11-12	Orlando, FL	May 9-10	Baltimore, MD	September 5-6	Cincinnati, OH
January 24-25	Hartford, CT	May 22-23	Cleveland, OH	September 17-19	BRIGHTSIDE
February 13-14	Dallas, TX	June 4-5	Minneapolis, MN	October 1-2	Atlanta, GA
February 15-16	Houston, TX	June 6-7	Green Bay, WI	October 3-4	Charlotte, NC
February 21-22	Philadelphia, PA	June 12-13	Montreal, QC	October 22-24	BRIGHTSIDE
March 5-6	St. Louis, MO	June 18-20	BRIGHTSIDE	November 5-6	Los Angeles, CA
March 7-8	Nashville, TN	July 9-11	BRIGHTSIDE	November 7-8	Las Vegas, NV
March 20-21	New York, NY	July 16-17	Vancouver, BC	November 19-20	Pittsburgh, PA
April 9-10	Chicago, IL	July 23-25	BRIGHTSIDE	December 3-4	Boston, MA
April 11-12	Detroit, MI	August 6-8	BRIGHTSIDE	December 5-6	Albany, NY
April 24-25	Atlantic City, NJ	August 20-22	BRIGHTSIDE	December 11-12	Baltimore, MD
May 2-3	Toronto, ON	August 21-22	London, England		

Day One - Fiber Optic Course
Basic Fiber Optic Theory
• Advantages of Fiber Optics
• Components in a Link
• Layers of a Simplex Cable
• Singlemode vs. Multimode
• Multifiber Cable Configurations
• Fiber Optic Connectors
FIS SC, LC Connectorization Workshop
• Cable Preparation
• Curing and Scribing
• Polishing
Microscope Operation & Connector Polish Analysis

Day Two - Advanced Fiber Optics
Fiber Optic Review and Self Test
Power Meter & Light Source Theory and Workshop
• PM & LS Operation
• Hands-On Instruction
OTDR Theory and Workshop
• How an OTDR Works
• Events and Trace Analysis
• Reflections & ORL
• OTDR Workshop
Mechanical Splicing Theory & Workshop
• Assembly of SC Bobtail Quick Term Connector
Fusion Splicing Theory & Workshop
• Hands-On Instruction / Troubleshooting
Cheetah Splice-On Connector Certification
• SOC Installation

**Day 1 Training: $225.00/Person
Day 2 Training: $275.00/Person
Both Days Training: $450.00/Person
International: $750.00/Person**

CUSTOM & CORPORATE TRAINING

The FIS Training Department can develop customized trainings to meet your specific needs. Training staff is well versed in a variety of topics related to the fiber and copper cabling industries. Class lengths and topics can be tailored to your specifications. FIS has conducted customized classes for many Fortune 500 companies. The following are just some examples of possible course subjects.

• Troubleshooting and Cleaning
• SMPTE and Tactical Cables
• OTDR
• Equipment Components
• Testing Techniques
• Outside Plant
• Trace Interpretation
• Trace Analysis
• Report Generation
• FTTx

TRAINEE TESTIMONIAL
Last December I had the pleasure of working with John Bruno, Training Specialist for Fiber Instrument Sales. John was able to tailor FIS Basic and Advanced Fiber courses to meet our time restrictions and focus on fiber for our broadcast facility. We covered basic theory, fiber/connector type and usage, then care, cleaning and troubleshooting. To top it off, all trainees were given ample time to properly fusion splice pigtails and 'fuse-on' connectors. He is very effective in imparting his vast knowledge of the subject matter in a concise, yet easy to understand format – this is not only my opinion, but that of all the trainees.
Paul Winter, Project Engineer, NBC Universal

CLASSES IN THE CENTRAL ADIRONDACKS!
A UNIQUE TRAINING EXPERIENCE!
Ask about training at beautiful Brightside-On-Raquette, our lakeside training center in the Adirondack Mountains of New York State. The Brightside provides a unique and relaxing environment in which to learn about fiber optic theory and techniques. At Brightside, you'll enlighten your mind while refreshing your spirit. After each day of training, you'll have the opportunity for fishing, hiking, boating or just plain relaxing around an Adirondack campfire.

Enjoy hearty camp-style cuisine, topped off with delicious desserts prepared by our on-staff chef. The registration fee includes training, all meals and two-night's lodging in your own private room at The Brightside. Visit our website http://www.brightsideonraquette.com/

Brightside Training Class (per person)   **$599.00**

1.800.500.FIS(347)

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Along with domestic and international training classes, FIS University offers a wide variety of training materials. These materials allow the user to learn and develop the skills needed to be a proficient fiber optic technician. All of the materials have been approved by the FIS University trainers for content to ensure their accuracy and relevance in today's fiber optic networks. Use these materials to continually develop your own skills; the development of company technicians, or to further support, techniques and theories learned in our training classes.

VIDEOS AND BOOKS ARE NON-RETURNABLE ITEMS!

FIS TRAINING VIDEOS

PART #	DESCRIPTION	PRICE
F1-TRAINCD	Connectors & Connectorization Video (CD-ROM)	$9.95

FIBER OPTIC TECHNOLOGY SERIES - DVD

PART #	DESCRIPTION	PRICE
F1-4500CDR	Introduction to Fiber Optic Theory and Fiber Structure	$99.50
F1-4550CDR	Fiber Optic Cable	99.50
F1-4650CDR	Fiber Optic Testing, Troubleshooting and Documentation	99.50
F1-3000CDR	Fiber Optic Splicing & Splice Enclosures	99.50
F1-3050CDR	Fiber Optic Couplers, Switches and Isolators	99.50
F1-3075CDR	Dense Wavelength Division Multiplexing	99.50

HOW-TO SERIES - DVD

PART #	DESCRIPTION	PRICE
F1-9782CDR	How to Perform Optical Loss Testing	$99.50
F1-9783CDR	Understanding & Using the OTDR	99.50
F1-9784CDR	How to Prepare Fiber Optic Cables	99.50
F1-2000CDR	How to Perform a Fiber Acceptance Test	99.50
F1-2025CDR	Singlemode Fiber Optic Emergency Restoration	99.50
F1-2050CDR	How to Prepare a Fiber Optic Patch Panel	99.50
F1-45SET	Fiber Optic Training DVD Set-Spanish	198.50

F1-TRAINCD   F1-9784CDR   F1-45SET

FIBER OPTIC TRAINING POSTERS

PART #	DESCRIPTION	PRICE
F1-TRANPO1	Fiber Optic Connector Chart (24" x 36")	$20.00
F1-TRANPO2	Fiber Optic Cable Guide (24" x 36")	20.00
F1-TRANPO3	Optical PM & LS Testing (24" x 36")	20.00

FIBER OPTIC TEXTBOOKS

PART #	DESCRIPTION	PRICE
F1-9791	FIS Lab Manual 4th Edition	$19.95
F1-4901	Understanding Fiber Optics, Jeff Hecht 2001	184.50
F1-4904	Sonet/SDH Third Edition, Walter J. Goralski, 2002 Paperback	95.00
F1-4905	Technicians Guide to Fiber Optics 4E, Donald Sterling Jr., 2004	95.00
F1-4907	Fiber Optic Reference Guide: 3rd Edition, David R. Goff, 2001	83.95
F1-0674	Premise Cabling 3rd Ed. Donald Sterling & Les Baxter 2001 Paperback	90.00
F1-4908	Practical Fiber Optics, David Bailey, Edwin Wright, 2003 Paperback	65.00
F1-4909	City of Light: The Story of Fiber Optics, Jeff Hecht, 2004 Paperback	39.95
F1-4910	Successful Fiber Optic Installation - Eric Pearson	84.95
F1-4910SP	Successful Fiber Optic Installation - Eric Pearson - Spanish	94.95

F1-TRANPO1   F1-TRANPO3   F1-TRANPO2

FIS EDUCATIONAL KIT

PART #	DESCRIPTION	PRICE
F1-00603	Educational Kit	$1,495.00
F1-0060R	Replenishing Kit	115.25
F1-9791	FIS Lab Manual 4th Edition	19.95

KIT CONTENTS:
- FIS 4th Edition Lab Manual
- FIS Diamond Scribe
- Epoxy Mixer
- Jacket Stripper
- Kevlar Cutters
- Fiber Optic Stripper
- FIS Lab Splice
- Universal 200X Microscope
- Power Meter
- 850nm Light Source
- Breakout Kit
- Pulling Eye
- Micro Torch
- Large Work Mat
- Continuity Tester
- Instructional Video
- Plus More

F1-4910   F1-0674   F1-9791

CALIBRATION

American Standards Lab.
A DIVISION OF FIBER INSTRUMENT SALES, INC.

EQUIPMENT CALIBRATION / VERIFICATION

Stay compliant with industry standards by taking advantage of our full service calibration lab. All equipment is inspected, calibrated to NIST traceable standards, and verified to be in conformance with the manufacturer's specifications. All calibration services include a calibration / verification certificate. Turn around time is typically 7-10 days for standard services. All calibration services include a NIST traceable calibration certificate. Rental units are available for extended service or repairs.

Call 1.800.5000.FIS (347) to Speak with a Calibration Representative.

CALIBRATION VERIFICATION

OTDR VERIFICATION
SERVICE FEATURES

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration services include a NIST traceable calibration certificate

BRAND	PRICE
FIS	$300.00
EXFO	350.00
AFL/NOYES	300.00
Anritsu	500.00
JDSU	500.00
Platform OTDR and 1 Module	850.00
Additional Modules (Price Each)	350.00
Other models - call for pricing	

POWER METER & LIGHT SOURCE
SERVICE FEATURES

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration services include a NIST traceable calibration certificate

BRAND	PRICE
FIS	$75.00
EXFO	100.00
AFL/NOYES	150.00
Anritsu	150.00

TEST SET KIT VERIFICATION
SERVICE FEATURES

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration services include a NIST traceable calibration certificate

BRAND	PRICE
FIS	$140.00
EXFO	200.00
AFL/NOYES	300.00
Anritsu	300.00

MAINTENANCE

FUSION SPLICER MAINTENANCE

- Replace Electrodes
- Clean Optical Components
- Detailed Cleaning
- Diagnostic and Performance Tests
- Splicer Maintenance and Evaluation

$250.00

CLEAVER MAINTENANCE

- Blade Adjustment (If required blade can be replaced for an additional charge)
- Adjust Blade Height
- Verify Proper Performance
- Cleaver Maintenance and Evaluation

$75.00
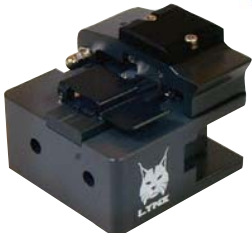
ASSEMBLIES

Starting at $6.95

See Page 18

Increase data rates by reducing system back reflection

FIS FIBER OPTIC TERMINATOR CONNECTORS

Low reflection Terminators are designed for use in unused ports and reduce back reflection into fiber optic systems. Each connector is environmentally sealed for protection.

Typical Back Reflection	<-55dB (All UPC types)
	<-65dB (All APC types)
Operating Temperature	-40°C to +70°C
Ferrule	Zirconia
Radius of Curvature	10mm - 20mm

SINGLEMODE SIMPLEX AND DUPLEX PATCHORDS

3MM ST-ST SIMPLEX - UPC

PART #	LENGTH	PRICE
S388S1FISC	1 Meter	$7.50
S388S2FISC	2 Meters	7.80
S388S3FISC	3 Meters	8.10
S388S5FISC	5 Meters	8.70
S388S10FISC	10 Meters	10.20
S388S15FISC	15 Meters	11.70
S388S20FISC	20 Meters	13.20

3MM SC-SC SIMPLEX - UPC

PART #	LENGTH	PRICE
S3YYS1FISC	1 Meter	$7.50
S3YYS2FISC	2 Meters	7.80
S3YYS3FISC	3 Meters	8.10
S3YYS5FISC	5 Meters	8.70
S3YYS10FISC	10 Meters	10.20
S3YYS15FISC	15 Meters	11.70
S3YYS20FISC	20 Meters	13.20

1.6MM LC-LC SIMPLEX - UPC

PART #	LENGTH	PRICE
Y3LLS1FISC	1 Meter	$10.75
Y3LLS2FISC	2 Meters	11.05
Y3LLS3FISC	3 Meters	11.35
Y3LLS5FISC	5 Meters	11.95
Y3LLS10FISC	10 Meters	13.45
Y3LLS15FISC	15 Meters	14.95
Y3LLS20FISC	20 Meters	16.45

3MM ST-SC SIMPLEX - UPC

PART #	LENGTH	PRICE
S38YS1FISC	1 Meter	$7.50
S38YS2FISC	2 Meters	7.80
S38YS3FISC	3 Meters	8.10
S38YS5FISC	5 Meters	8.70
S38YS10FISC	10 Meters	10.20
S38YS15FISC	15 Meters	11.70
S38YS20FISC	20 Meters	13.20

1.6MM LC-SC SIMPLEX - UPC

PART #	LENGTH	PRICE
Y3LYS1FISC	1 Meter	$10.75
Y3LYS2FISC	2 Meters	11.05
Y3LYS3FISC	3 Meters	11.35
Y3LYS5FISC	5 Meters	11.95
Y3LYS10FISC	10 Meters	13.45
Y3LYS15FISC	15 Meters	14.95
Y3LYS20FISC	20 Meters	16.45

3MM FC-FC SIMPLEX - UPC

PART #	LENGTH	PRICE
S377S1FISC	1 Meter	$7.50
S377S2FISC	2 Meters	7.80
S377S3FISC	3 Meters	8.10
S377S5FISC	5 Meters	8.70
S377S10FISC	10 Meters	10.20
S377S15FISC	15 Meters	11.70
S377S20FISC	20 Meters	13.20

1.6MM LC-SC DUPLEX - UPC

PART #	LENGTH	PRICE
X3LYS1FISC	1 Meter	$16.25
X3LYS2FISC	2 Meters	16.65
X3LYS3FISC	3 Meters	17.05
X3LYS5FISC	5 Meters	17.85
X3LYS10FISC	10 Meters	19.85
X3LYS15FISC	15 Meters	21.85
X3LYS20FISC	20 Meters	23.85

3MM SC-SC DUPLEX - UPC

PART #	LENGTH	PRICE
D3YYS1FISC	1 Meter	$14.95
D3YYS2FISC	2 Meters	15.35
D3YYS3FISC	3 Meters	15.75
D3YYS5FISC	5 Meters	16.55
D3YYS10FISC	10 Meters	18.55
D3YYS15FISC	15 Meters	20.55
D3YYS20FISC	20 Meters	22.25

3MM ST-ST DUPLEX - UPC

PART #	LENGTH	PRICE
D388S1FISC	1 Meter	$14.95
D388S2FISC	2 Meters	15.35
D388S3FISC	3 Meters	15.75
D388S5FISC	5 Meters	16.55
D388S10FISC	10 Meters	18.55
D388S15FISC	15 Meters	20.55
D388S20FISC	20 Meters	22.55

3MM ST-SC DUPLEX - UPC

PART #	LENGTH	PRICE
D38YS1FISC	1 Meter	$14.95
D38YS2FISC	2 Meters	15.35
D38YS3FISC	3 Meters	15.75
D38YS5FISC	5 Meters	16.55
D38YS10FISC	10 Meters	18.55
D38YS15FISC	15 Meters	20.55
D38YS20FISC	20 Meters	22.25

3MM FC-FC DUPLEX - UPC

PART #	LENGTH	PRICE
D377S1FISC	1 Meter	$14.95
D377S2FISC	2 Meters	15.35
D377S3FISC	3 Meters	15.75
D377S5FISC	5 Meters	16.55
D377S10FISC	10 Meters	18.55
D377S15FISC	15 Meters	20.55
D377S20FISC	20 Meters	22.25

1.6MM LC-LC DUPLEX - UPC

PART #	LENGTH	PRICE
X3LLS1FISC	1 Meter	$16.25
X3LLS2FISC	2 Meters	16.65
X3LLS3FISC	3 Meters	17.05
X3LLS5FISC	5 Meters	17.85
X3LLS10FISC	10 Meters	19.85
X3LLS15FISC	15 Meters	21.85
X3LLS20FISC	20 Meters	23.85

MULTIMODE SIMPLEX AND DUPLEX PATCHORDS - 50µm OM3/OM4

QUANTITY PRICING

1.6MM OM3 SC-SC SIMPLEX - PC

PART #	LENGTH	PRICE
Y8YYM1FISC	1 Meter	$6.95
Y8YYM2FISC	2 Meters	7.35
Y8YYM3FISC	3 Meters	7.75
Y8YYM5FISC	5 Meters	8.55
Y8YYM10FISC	10 Meters	10.55

1.6MM OM3 LC-LC SIMPLEX - PC

PART #	LENGTH	PRICE
Y8LLM1FISC	1 Meter	$8.00
Y8LLM2FISC	2 Meters	8.40
Y8LLM3FISC	3 Meters	8.80
Y8LLM5FISC	5 Meters	10.80
Y8LLM10FISC	10 Meters	12.80

1.6MM OM3 ST-ST SIMPLEX - PC

PART #	LENGTH	PRICE
Y888M1FISC	1 Meter	$6.95
Y888M2FISC	2 Meters	7.35
Y888M3FISC	3 Meters	7.75
Y888M5FISC	5 Meters	8.55
Y888M10FISC	10 Meters	10.00

1.6MM OM3 LC-SC SIMPLEX - PC

PART #	LENGTH	PRICE
Y8LYM1FISC	1 Meter	$8.00
Y8LYM2FISC	2 Meters	8.40
Y8LYM3FISC	3 Meters	8.80
Y8LYM5FISC	5 Meters	10.80
Y8LYM10FISC	10 Meters	12.80

1.6MM OM3 SC-ST SIMPLEX - PC

PART #	LENGTH	PRICE
Y8Y8M1FISC	1 Meter	$6.95
Y8Y8M2FISC	2 Meters	7.35
Y8Y8M3FISC	3 Meters	7.75
Y8Y8M5FISC	5 Meters	8.55
Y8Y8M10FISC	10 Meters	10.55

1.6MM OM3 LC-ST SIMPLEX - PC

PART #	LENGTH	PRICE
Y8L8M1FISC	1 Meter	$8.00
Y8L8M2FISC	2 Meters	8.40
Y8L8M3FISC	3 Meters	8.80
Y8L8M5FISC	5 Meters	10.80
Y8L8M10FISC	10 Meters	12.80

1.6MM OM3 SC-SC DUPLEX - PC

PART #	LENGTH	PRICE
X8YYM1FISC	1 Meter	$11.95
X8YYM2FISC	2 Meters	12.55
X8YYM3FISC	3 Meters	13.15
X8YYM5FISC	5 Meters	14.35
X8YYM10FISC	10 Meters	17.35

1.6MM OM3 LC-LC DUPLEX - PC

PART #	LENGTH	PRICE
X8LLM1FISC	1 Meter	$12.95
X8LLM2FISC	2 Meters	13.55
X8LLM3FISC	3 Meters	14.15
X8LLM5FISC	5 Meters	15.35
X8LLM10FISC	10 Meters	18.35

1.6MM OM3 ST-ST DUPLEX - PC

PART #	LENGTH	PRICE
X888M1FISC	1 Meter	$11.95
X888M2FISC	2 Meters	12.55
X888M3FISC	3 Meters	13.15
X888M5FISC	5 Meters	14.35
X888M10FISC	10 Meters	17.35

1.6MM OM3 LC-SC DUPLEX - PC

PART #	LENGTH	PRICE
X8LYM1FISC	1 Meter	$12.95
X8LYM2FISC	2 Meters	13.55
X8LYM3FISC	3 Meters	14.15
X8LYM5FISC	5 Meters	15.35
X8LYM10FISC	10 Meters	18.35

1.6MM OM3 SC-ST DUPLEX - PC

PART #	LENGTH	PRICE
X8Y8M1FISC	1 Meter	$11.95
X8Y8M2FISC	2 Meters	12.55
X8Y8M3FISC	3 Meters	13.15
X8Y8M5FISC	5 Meters	14.35
X8Y8M10FISC	10 Meters	17.35

1.6MM OM3 LC-ST DUPLEX - PC

PART #	LENGTH	PRICE
X8L8M1FISC	1 Meter	$12.95
X8L8M2FISC	2 Meters	13.55
X8L8M3FISC	3 Meters	14.15
X8L8M5FISC	5 Meters	15.35
X8L8M10FISC	10 Meters	18.35

1.6MM OM4 SC-SC DUPLEX - PC

PART #	LENGTH	PRICE
X10YYM1FISC	1 Meter	$22.25
X10YYM2FISC	2 Meters	23.25
X10YYM3FISC	3 Meters	24.25
X10YYM5FISC	5 Meters	26.25
X10YYM10FISC	10 Meters	31.25

1.6MM OM4 LC-LC DUPLEX - PC

PART #	LENGTH	PRICE
X10LLM1FISC	1 Meter	$24.25
X10LLM2FISC	2 Meters	25.25
X10LLM3FISC	3 Meters	26.25
X10LLM5FISC	5 Meters	28.25
X10LLM10FISC	10 Meters	33.25

1.6MM OM4 ST-ST DUPLEX - PC

PART #	LENGTH	PRICE
X1088M1FISC	1 Meter	$22.25
X1088M2FISC	2 Meters	23.25
X1088M3FISC	3 Meters	24.25
X1088M5FISC	5 Meters	26.25
X1088M10FISC	10 Meters	31.25

FIBER OPTIC ASSEMBLIES

SIMPLEX AND DUPLEX PATCHORDS

QUANTITY PRICING

plus CORNING® Optical Fiber

IN STOCK

3MM ST-ST SIMPLEX - 50µm

PART #	LENGTH	PRICE
S188M1FISC	1 Meter	$5.35
S188M2FISC	2 Meters	5.70
S188M3FISC	3 Meters	6.05
S188M5FISC	5 Meters	6.75
S188M10FISC	10 Meters	8.50

3MM SC-SC SIMPLEX - 50µm

PART #	LENGTH	PRICE
S1YYM1FISC	1 Meter	$5.35
S1YYM2FISC	2 Meters	5.70
S1YYM3FISC	3 Meters	6.05
S1YYM5FISC	5 Meters	6.75
S1YYM10FISC	10 Meters	8.50

1.6MM LC-LC SIMPLEX - 50µm

PART #	LENGTH	PRICE
Y1LLM1FISC	1 Meter	$6.95
Y1LLM3FISC	3 Meters	7.30
Y1LLM5FISC	5 Meters	7.65
Y1LLM10FISC	10 Meters	8.35
Y1LLM15FISC	15 Meters	10.25

3MM ST-ST DUPLEX - 50µm

PART #	LENGTH	PRICE
D188M1FISC	1 Meter	$10.00
D188M2FISC	2 Meters	10.60
D188M3FISC	3 Meters	11.20
D188M5FISC	5 Meters	12.40
D188M10FISC	10 Meters	15.40

3MM SC-SC DUPLEX - 50µm

PART #	LENGTH	PRICE
D1YYM1FISC	1 Meter	$10.00
D1YYM2FISC	2 Meters	10.60
D1YYM3FISC	3 Meters	11.20
D1YYM5FISC	5 Meters	12.40
D1YYM10FISC	10 Meters	15.40

1.6MM LC-LC DUPLEX - 50µm

PART #	LENGTH	PRICE
X1LLM1FISC	1 Meter	$13.45
X1LLM2FISC	2 Meters	14.25
X1LLM3FISC	3 Meters	15.10
X1LLM5FISC	5 Meters	16.75
X1LLM10FISC	10 Meters	21.50

3MM ST-SC DUPLEX - 50µm

PART #	LENGTH	PRICE
D18YM1FISC	1 Meter	$10.00
D18YM2FISC	2 Meters	10.60
D18YM3FISC	3 Meters	11.20
D18YM5FISC	5 Meters	12.40
D18YM10FISC	10 Meters	15.40

1.6MM ST-LC DUPLEX - 50µm

PART #	LENGTH	PRICE
X18LM1FISC	1 Meter	$13.45
X18LM2FISC	2 Meters	14.25
X18LM3FISC	3 Meters	15.10
X18LM5FISC	5 Meters	16.75
X18LM10FISC	10 Meters	21.50

1.6MM SC-LC DUPLEX - 50µm

PART #	LENGTH	PRICE
X1YLM1FISC	1 Meter	$13.45
X1YLM2FISC	2 Meters	14.25
X1YLM3FISC	3 Meters	15.10
X1YLM5FISC	5 Meters	16.75
X1YLM10FISC	10 Meters	21.50

1.6MM MT-RJ FEMALE MULTIMODE 62.5µm PATCHCORDS - OM1

PART #	DESCRIPTION		PRICE	PART #	DESCRIPTION		PRICE
X2MJMJM1FISC	MT-RJ-MT-RJ	1 Meter	$9.95	X2MJYM3FISC	MT-RJ-SC	3 Meters	$11.15
X2MJMJM2FISC	MT-RJ-MT-RJ	2 Meters	10.55	X2MJYM5FISC	MT-RJ-SC	5 Meters	12.35
X2MJMJM3FISC	MT-RJ-MT-RJ,	3 Meters	11.15	X2MJ8M1FISC	MT-RJ-ST	1 Meter	9.95
X2MJMJM5FISC	MT-RJ-MT-RJ	5 Meters	12.35	X2MJ8M2FISC	MT-RJ-ST	2 Meters	10.55
X2MJYM1FISC	MT-RJ-SC	1 Meter	9.95	X2MJ8M3FISC	MT-RJ-ST	3 Meters	11.15
X2MJYM2FISC	MT-RJ-SC	2 Meters	10.55	X2MJ8M5FISC	MT-RJ-ST	5 Meters	12.35

X2MJ8M1FISC

SIMPLEX AND DUPLEX PATCHORDS - 62.5µm OM1

3MM ST-ST SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
S288M1FISC	1 Meter	$5.35
S288M2FISC	2 Meters	5.70
S288M3FISC	3 Meters	6.05
S288M5FISC	5 Meters	6.75
S288M10FISC	10 Meters	8.50
S288M15FISC	15 Meters	10.25
S288M20FISC	20 Meters	12.00

3MM SC-SC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
S2YYM1FISC	1 Meter	$5.35
S2YYM2FISC	2 Meters	5.70
S2YYM3FISC	3 Meters	6.05
S2YYM5FISC	5 Meters	6.75
S2YYM10FISC	10 Meters	8.50
S2YYM15FISC	15 Meters	10.25
S2YYM20FISC	20 Meters	12.00

1.6MM LC-LC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
Y2LLM1FISC	1 Meter	$6.95
Y2LLM2FISC	2 Meters	7.30
Y2LLM3FISC	3 Meters	7.65
Y2LLM5FISC	5 Meters	8.35
Y2LLM10FISC	10 Meters	10.25
Y2LLM15FISC	15 Meters	11.85
Y2LLM20FISC	20 Meters	13.60

3MM ST-ST DUPLEX - 62.5µm

PART #	LENGTH	PRICE
D288M1FISC	1 Meter	$10.00
D288M2FISC	2 Meters	10.60
D288M3FISC	3 Meters	11.20
D288M5FISC	5 Meters	12.40
D288M10FISC	10 Meters	15.40
D288M15FISC	15 Meters	18.40
D288M20FISC	20 Meters	21.40

3MM SC-SC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
D2YYM1FISC	1 Meter	$10.00
D2YYM2FISC	2 Meters	10.60
D2YYM3FISC	3 Meters	11.20
D2YYM5FISC	5 Meters	12.40
D2YYM10FISC	10 Meters	15.40
D2YYM15FISC	15 Meters	18.40
D2YYM20FISC	20 Meters	21.40

1.6MM LC-LC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
X2LLM1FISC	1 Meter	$13.45
X2LLM2FISC	2 Meters	14.25
X2LLM3FISC	3 Meters	15.10
X2LLM5FISC	5 Meters	16.75
X2LLM10FISC	10 Meters	21.50
X2LLM15FISC	15 Meters	24.65
X2LLM20FISC	20 Meters	28.65

HYBRID CERAMIC MULTIMODE 62.5µm - OM1 PATCHCORDS

3MM ST-SC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
S28YM1FISC	1 Meter	$5.35
S28YM2FISC	2 Meters	5.70
S28YM3FISC	3 Meters	6.05
S28YM5FISC	5 Meters	6.75
S28YM10FISC	10 Meters	8.50

1.6MM SC-LC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
Y2YLM1FISC	1 Meter	$6.95
Y2YLM2FISC	2 Meters	7.30
Y2YLM3FISC	3 Meters	7.65
Y2YLM5FISC	5 Meters	8.35
Y2YLM10FISC	10 Meters	10.25

1.6MM ST-LC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
Y28LM1FISC	1 Meter	$6.95
Y28LM2FISC	2 Meters	7.30
Y28LM3FISC	3 Meters	7.65
Y28LM5FISC	5 Meters	8.35
Y28LM10FISC	10 Meters	10.25

3MM ST-SC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
D28YM1FISC	1 Meter	$10.00
D28YM2FISC	2 Meters	10.60
D28YM3FISC	3 Meters	11.20
D28YM5FISC	5 Meters	12.40
D28YM10FISC	10 Meters	15.40

1.6MM SC-LC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
X2YLM1FISC	1 Meter	$13.45
X2YLM2FISC	2 Meter	14.25
X2YLM3FISC	3 Meters	15.10
X2YLM5FISC	5 Meters	16.75
X2YLM10FISC	10 Meters	21.50

1.6MM ST-LC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
X28LM1FISC	1 Meter	$13.45
X28LM2FISC	2 Meter	14.25
X28LM3FISC	3 Meters	15.10
X28LM5FISC	5 Meters	16.75
X28LM10FISC	10 Meters	21.50

SINGLEMODE SIMPLEX AND DUPLEX - OS2 APC PATCHCORDS

1.6MM LC-LC SIMPLEX- APC

PART #	LENGTH	PRICE
Y3LALAS1FISC	1 Meter	$12.95
Y3LALAS2FISC	2 Meters	13.25
Y3LALAS3FISC	3 Meters	13.55
Y3LALAS5FISC	5 Meters	14.15
Y3LALAS10FISC	10 Meters	15.65

3MM SC-SC SIMPLEX- APC

PART #	LENGTH	PRICE
S3YAYAS1FISC	1 Meter	$10.95
S3YAYAS2FISC	2 Meters	11.25
S3YAYAS3FISC	3 Meters	11.55
S3YAYAS5FISC	5 Meters	12.15
S3YAYAS10FISC	10 Meters	13.65

3MM FC-SC SIMPLEX- APC

PART #	LENGTH	PRICE
S37AYAS1FISC	1 Meter	$10.95
S37AYAS2FISC	2 Meters	11.25
S37AYAS3FISC	3 Meters	11.55
S37AYAS5FISC	5 Meters	12.15
S37AYAS10FISC	10 Meters	13.65

1.6MM LC-LC DUPLEX- APC

PART #	LENGTH	PRICE
X3LALAS1FISC	1 Meter	$17.95
X3LALAS2FISC	2 Meters	18.35
X3LALAS3FISC	3 Meters	18.75
X3LALAS5FISC	5 Meters	19.55
X3LALAS10FISC	10 Meters	21.55

3MM SC-SC DUPLEX- APC

PART #	LENGTH	PRICE
D3YAYAS1FISC	1 Meter	$16.95
D3YAYAS2FISC	2 Meters	17.35
D3YAYAS3FISC	3 Meters	17.75
D3YAYAS5FISC	5 Meters	18.55
D3YAYAS10FISC	10 Meters	20.55

3MM FC-SC DUPLEX- APC

PART #	LENGTH	PRICE
D37AYAS1FISC	1 Meter	$16.95
D37AYAS2FISC	2 Meters	17.35
D37AYAS3FISC	3 Meters	17.75
D37AYAS5FISC	5 Meters	18.55
D37AYAS10FISC	10 Meters	20.55

QUANTITY PRICING

plus
CORNING®
ClearCurve® Optical Fiber

IN STOCK

SINGLEMODE SIMPLEX AND DUPLEX - CLEARCURVE® XB BEND-INSENSITIVE BLUE JACKET PATCHCORDS

3MM ST-SC SIMPLEX - UPC

PART #	LENGTH	PRICE
S98YS1FISCXB	1 Meter	$9.95
S98YS2FISCXB	2 Meters	10.95
S98YS3FISCXB	3 Meters	11.95
S98YS5FISCXB	5 Meters	13.95
S98YS10FISCXB	10 Meters	18.95

1.6MM LC-SC SIMPLEX - UPC

PART #	LENGTH	PRICE
Y9LYS1FISCXB	1 Meter	$10.95
Y9LYS2FISCXB	2 Meters	11.95
Y9LYS3FISCXB	3 Meters	13.95
Y9LYS5FISCXB	5 Meters	15.95
Y9LYS10FISCXB	10 Meters	20.95

3MM FC-FC SIMPLEX - UPC

PART #	LENGTH	PRICE
S977S1FISCXB	1 Meter	$9.95
S977S2FISCXB	2 Meters	10.95
S977S3FISCXB	3 Meters	11..95
S977S5FISCXB	5 Meters	13.95
S977S10FISCXB	10 Meters	18.95

1.6MM LC-SC DUPLEX - UPC

PART #	LENGTH	PRICE
X9LYS1FISCXB	1 Meter	$17.25
X9LYS2FISCXB	2 Meters	18.25
X9LYS3FISCXB	3 Meters	19.25
X9LYS5FISCXB	5 Meters	21.25
X9LYS10FISCXB	10 Meters	26.25
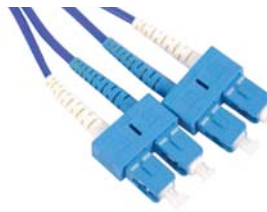
3MM SC-SC DUPLEX - UPC

PART #	LENGTH	PRICE
D9YYS1FISCXB	1 Meter	$16.25
D9YYS2FISCXB	2 Meters	17.25
D9YYS3FISCXB	3 Meters	18.25
D9YYS5FISCXB	5 Meters	20.25
D9YYS10FISCXB	10 Meters	25.25

1.6MM LC-LC DUPLEX - UPC

PART #	LENGTH	PRICE
X9LLS1FISCXB	1 Meter	$17.25
X9LLS2FISCXB	2 Meters	18.25
X9LLS3FISCXB	3 Meters	19.25
X9LLS5FISCXB	5 Meters	21.25
X9LLS10FISCXB	10 Meters	31.25

DUPLEX PATCHCORDS MULTIMODE/SINGLEMODE

VF-45 - VF-45 SINGLEMODE

PART #	LENGTH	PRICE
VOLV9L/R2	2 Meters	$19.45
VOLV9L/R3	3 Meters	22.25
VOLV9L/R5	5 Meters	27.85
VOLV9L/R15	15 Meters	49.50

VF-45 - VF-45 MULTIMODE 62.5/125

PART #	LENGTH	PRICE
VOLV6L/R1	1 Meter	$13.75
VOLV6L/R2	2 Meters	15.80
VOLV6L/R3	3 Meters	17.90
VOLV6L/R5	5 Meters	23.25
VOLV6L/R10	10 Meters	31.95

VF-45 - ST MULTIMODE 62.5/125

PART #	LENGTH	PRICE
G2VF8M1FIS	1 Meter	$27.95
G2VF8M2FIS	2 Meters	28.95
G2VF8M3FIS	3 Meters	34.85
G2VF8M5FIS	5 Meters	31.95
G2VF8M10FIS	10 Meters	36.95

VF-45 - LC MULTIMODE 62.5/125

PART #	LENGTH	PRICE
G2VFLM1FIS	1 Meter	$27.95
G2VFLM2FIS	2 Meters	28.95
G2VFLM3FIS	3 Meters	29.95
G2VFLM5FIS	5 Meters	31.95
G2VFLM10FIS	10 Meters	36.95

VF-45 - SC MULTIMODE 62.5/125

PART #	LENGTH	PRICE
G2VFYM1FIS	1 Meter	$27.95
G2VFYM2FIS	2 Meters	28.95
G2VFYM3FIS	3 Meters	29.95
G2VFYM5FIS	5 Meters	31.95
G2VFYM10FIS	10 Meters	56.12

VF-45 - MTRJ MULTIMODE 62.5/125

PART #	LENGTH	PRICE
G2VFMJM1FIS	1 Meter	$30.95
G2VFMJM2FIS	2 Meters	31.95
G2VFMJM3FIS	3 Meters	33.95
G2VFMJM5FIS	5 Meters	35.95
G2VFMJM10FIS	10 Meters	47.30

MODE CONDITIONING PATCHCORDS

Mode Conditioning Patchcords are used in conjunction with laser transmitters with VCSEL for 1 Gb with FDDI fiber in fiber optic links to improve the transition bandwidth by the reduction of modal dispersion. These cords can be assembled in various configurations to meet your specific needs. Contact your FIS sales representative for pricing and delivery. Improve the performance of your network today.

Part # Example:
F1-MCP-3-1-SC-SC
Translates to: Mode Conditioning Patchcord 3 meters length, 50/125µm, SC connectors both ends.

CUSTOM MODE CONDITIONING MATRIX

MODE COND.	LENGTH IN METERS	MULTIMODE LEGS	CONN. Side A	CONN. Side B
F1-MCP	3	1	SC	SC

CORE / CLAD SIZE
1=50/125µm - OM2
2=62.5/125µm - OM1

CONNECTORS
SC=SC/PC
ST=ST/PC
LC=LC/PC
MJ=MTRJ (no pins)
MP=MTRJ (w/pins)

CONNECTORS
SC=SC/PC
ST=ST/PC
LC=LC/PC
MJ=MTRJ (no pins)
MP=MTRJ (w/pins)

Conn. Side A   Conn. Side B
Active Equip.   Transmitter
Receiver   Mode Conditioning Module
12" standard
Overall Length
Cable Plant System
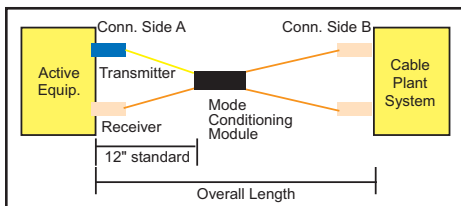
F1-MCP-1-2-SC-SC

ALL PATCHCORDS
3mm Duplex Jacketing

SC-SC MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-SC-SC	1 Meter	$65.00
F1-MCP-3-2-SC-SC	3 Meters	67.00
F1-MCP-5-2-SC-SC	5 Meters	69.00
F1-MCP-10-2-SC-SC	10 Meters	79.00

LC-SC MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-LC-SC	1 Meter	$68.00
F1-MCP-3-2-LC-SC	3 Meters	70.00
F1-MCP-5-2-LC-SC	5 Meters	73.00
F1-MCP-10-2-LC-SC	10 Meters	78.00

ST-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-ST-ST	1 Meter	$65.00
F1-MCP-3-2-ST-ST	3 Meters	67.00
F1-MCP-5-2-ST-ST	5 Meters	69.00
F1-MCP-10-2-ST-ST	10 Meters	79.00

SC-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-SC-ST	1 Meter	$65.00
F1-MCP-3-2-SC-ST	3 Meters	67.00
F1-MCP-5-2-SC-ST	5 Meters	69.00
F1-MCP-10-2-SC-ST	10 Meters	79.00

LC-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-LC-ST	1 Meter	$68.00
F1-MCP-3-2-LC-ST	3 Meters	70.00
F1-MCP-5-2-LC-ST	5 Meters	73.00
F1-MCP-10-2-LC-ST	10 Meters	78.00

For Technical Information you can't find elsewhere, check out our whitepapers online!

www.fiberinstrumentsales.com

SPECIALTY OPTICAL ASSEMBLIES

S-4-9U-9U-S-1-FIS

PM SPECIFICATIONS	
Insertion Loss (Typical)	0.5dB
Extinction Ratio (Typical)	>25dB
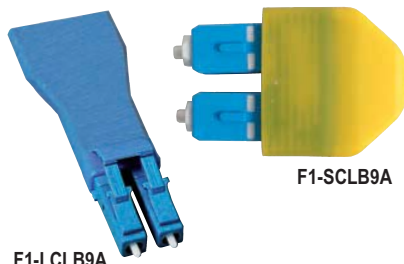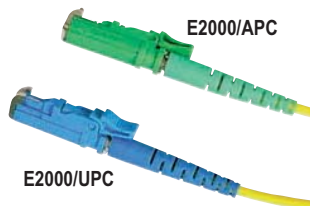
POLARIZATION MAINTAINING PATCHCORDS

For polarization-sensitive applications, FIS offers PM patchcords with UPC or APC connector finishes. Available in 900µm and 3mm jacketed versions. Important specifications need to be discussed with FIS Sales Associate upon ordering, such as: Alignment (slow or fast axis) Fiber Specifications, Cable Jacket (900µm buffer or 3.0mm), whether or not the purchased PM assemblies will be used for splicing. Contact FIS for additional specifications and pricing on PM jumpers of various lengths. Specify Fibercore Limited PM fiber or Corning PM Fiber.

PART #	DESCRIPTION	PRICE
S-4-9A-9A-S-1-FIS	Simplex FC/APC - FC/APC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter	$95.00
S-4-9U-9U-S-1-FIS	Simplex FC/UPC - FC/UPC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter	95.00
S-4-9U-9A-S-1-FIS	Simplex FC/UPC - FC/APC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter	95.00

E2000/APC

E2000/UPC

E2000 PATCHCORDS & MATING SLEEVES

FIS offers singlemode E2000 2.8mm cable assemblies. The E2000 comes with an integrated shutter system to protect the user from high-power laser emissions, and protects the connector from contamination. **Call for other configurations and lengths.**

PART #	MFG	DESCRIPTION	PRICE
S-3-EU-EU-S-1-FISC	FIS	Simplex 9/125 E2000/UPC to E2000/UPC 1 Meter 2.8mm	$56.95
S-3-EU-EU-S-3-FISC	FIS	Simplex 9/125 E2000/UPC to E2000/UPC 3 Meter 2.8mm	61.95
S-3-EU-EU-S-5-FISC	FIS	Simplex 9/125 E2000/UPC to E2000/UPC 5 Meter 2.8mm	62.95
S-3-EA-EA-S-1-FISC	FIS	Simplex 9/125 E2000/APC to E2000/APC 1 Meter 2.8mm	60.25
S-3-EA-EA-S-3-FISC	FIS	Simplex 9/125 E2000/APC to E2000/APC 3 Meter 2.8mm	60.95
F1-E2000	FIS	E2000 to E2000 Singlemode Adapter Ceramic Sleeve	12.00
F1-E2000APC	FIS	E2000/APC to E2000/APC Singlemode Adapter Ceramic Sleeve	15.00

MTP ASSEMBLIES & FAN-OUTS

R-3-MT-MJ-S-1-FIS-12

FIS offers pre-assembled ribbon fan-out assemblies with your choice of connectors. FIS MTP cable assemblies provide low-loss connections and dependable performance. MTP connectors are available with or without guide pins; be sure to indicate designation upon ordering custom cable assemblies. Fan-out length available in 24" or 36" inches. Custom configurations available.

PART #	DESCRIPTION	PRICE
R-3-MT-MT-S-1-FIS-12	MTP/Male - MTP/Male SM, 12 Fiber Ribbon, 1 Meter	$115.00
R-3-MT-MJ-S-1-FIS-12	MTP/Male - MT-RJ/Female SM, 12 Fiber Ribbon, 1 Meter	110.00
R-3-MT-YU-S-1-FIS-12	MTP/Male - SC/UPC SM, 12 Fiber Ribbon, 1 Meter	110.00
R-3-MT-LU-S-1-FIS-12	MTP/Male - LC/UPC SM, 12 Fiber Ribbon, 1 Meter	115.00

FIS COMPACT NODE CABLES (SERVICE CABLES)

NC-3-BA-P-S-15-FIS-6

Fiber Instrument Sales' Compact Node is an epoxy based optical node cable assembly. Designed for HFC applications with the flexibility to fit aerial, pedestal and vault applications. The epoxy provides exceptional strength and mechanical isolation of the fibers. The compact length provides greater flexibility to install inside tight pedestals and other constricted applications. Central tube cable construction is easy to install and break-out in splice trays and enclosures. Available in various custom configurations up to 12 fibers.

PART #	DESCRIPTION	PRICE
NC-3-BA-P-S-15-FIS-2	Node Cable 2 Fiber Loosetube Cable SM SC/APC – Pigtail, 15 Meters	$105.00
NC-3-BA-P-S-15-FIS-4	Node Cable 4 Fiber Loosetube Cable SM SC/APC – Pigtail, 15 Meters	136.00
NC-3-BA-P-S-15-FIS-6	Node Cable 6 Fiber Loosetube Cable SM SC/APC – Pigtail, 15 Meters	170.00
NC-3-BU-P-S-15-FIS-2	Node Cable 2 Fiber Loosetube Cable SM SC/UPC – Pigtail, 15 Meters	99.00
NC-3-BU-P-S-15-FIS-4	Node Cable 4 Fiber Loosetube Cable SM SC/UPC – Pigtail, 15 Meters	130.00
NC-3-BU-P-S-15-FIS-6	Node Cable 6 Fiber Loosetube Cable SM SC/UPC – Pigtail, 15 Meters	164.00

FIS FIBER OPTIC TERMINATOR CONNECTORS

F1-2071

F1-3071

Low reflection Terminators are designed for use in unused ports and reduce back reflection into fiber optic systems. Each connector is environmentally sealed for protection. Back Reflection APC = -65dB UPC = -55dB

| PART #	DESCRIPTION	PRICE
F1-0071	FIS ST/UPC Terminator Connector	$6.95
F1-2071	FIS FC/UPC Terminator Connector	6.95
F1-3071	FIS SC/UPC Terminator Connector	6.95
F1-2072	FIS FC/APC Terminator Connector	7.95
F1-3072	FIS SC/APC Terminator Connector	7.95
F1-4071	FIS LC/UPC Terminator Connector	6.95
F1-4072	FIS LC/APC Terminator Connector	7.95

NEW Pricing

FIS LOOPBACK MODULES

F1-SCLB9A

F1-LCLB9A

Loopbacks are designed for testing, engineering and the burn-in stage of boards or other equipment. They provide system test engineers a simple but effective way of testing the transmission capability and receiver sensitivity of network equipment.

PART #	DESCRIPTION	PRICE
F1-SCLB9A	SC Loopback SM 9/125µm Fiber	$13.95
F1-SCLB62A	SC Loopback MM 62.5/125µm Fiber	13.95
F1-LCLB9A	LC Loopback SM 9/125µm Fiber	13.95
F1-LCLB62A	LC Loopback MM 62.5/125µm Fiber	13.95
F1-LCLB50A	LC Loopback MM 50/125µm Fiber	13.95

FIS Manufactured Assemblies

As an industry leader, FIS is the perfect choice for your custom fiber optic assemblies. Whether it be a DWDM coupler module or a single fiber patchcord, our over 25 years of manufacturing experience has allowed us to perfect our processes and bring to you the highest quality assemblies with superior performance and fast delivery. Please reference the text, drawings, and supplied matrices **(see page 20)** to create a part number for your custom assembly and contact your FIS sales representative for a quote today.
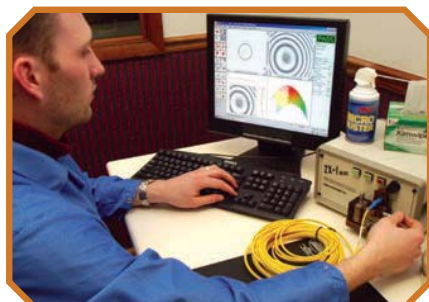
STANDARD CONFIGURATIONS

Standard configurations (typical lead-time 2-4 days) – Convert your next project to "plug n' go" by having your cable assemblies pre-terminated by FIS. Our expert technicians prepare assemblies from 1-fiber patchcords to 144-fiber assemblies, while offering a wide array of components for you to create the perfect assembly for your application. Included below are manufacturing specifications for FIS's pre-terminated assemblies to better help you prepare your installation. If a need arises to change a specification to best meet your application, please call your FIS representative for more details and refer to the custom configuration section below to see the various services available.

CUSTOM CONFIGURATIONS

Custom configurations (typical lead-time 3-5 days) – FIS has the ability to manufacture a variety of custom configurations. Our custom abilities include but are not limited to labeling, packaging, testing requirements, and building to customer supplied specifications and drawings. With our experienced sales and engineering teams, FIS can help create and produce a custom solution to meet almost any application.

SPECIFICATIONS

LENGTH

SIMPLEX/DUPLEX	MULTIFIBER
TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)	TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)
BREAKOUT = N/A	BREAKOUT = 1 MTR (-0/+3")
MAXIMUM CONNECTOR TO CONNECTOR = 1.5"	MAXIMUM CONNECTOR TO CONNECTOR = 1.5"

TESTING

INSERTION LOSS	RETURN LOSS
MULTIMODE = >/= 0.4 dB (TYPICAL)	PC = </= -25dB
SINGLEMODE = >/= 0.3 dB (TYPICAL)	UPC = </= -55dB
	APC = </= -60dB

DID YOU KNOW

In order to share our knowledge we have included a technical terms glossary for reference when constructing custom assemblies.

CONNECTOR POLISH TYPES

• **PC** - Physical Contact. The connector end face has a low radius of curvature and offers good basic performance. Typical performance is <-30dB.

• **UPC** - Ultra Physical Contact. The connector end face has a higher radius of curvature, which aids in the reduction of back refection into an optical system. Typical performance is < -55dB and often is identified by a blue strain relief boot or connector body.

• **APC** - Angled Physical Contact. The connector end face is angled at 8 degrees to achieve maximum reduction of back reflection. Typical performance is < -65dB and often is identified by a green strain relief boot or connector body. Often used with singlemode fiber in long haul applications and can only be mated to another APC connector.

JACKET TYPES

• **PLENMm (OFNP)** - refers to a specific fire code rating of cables that are resistant to fire and do not emit toxic fumes or smoke when burned. Plenum-rated cables are primarily used in pathways for either heated, cooled or return airflows.

• **RISER (OFNR)** - is constructed of PVC and may emit toxic fumes when burned and is to be run in non-plenum areas. Plenum cable can always replace riser cable, but riser cable cannot replace plenum cable in plenum spaces.

CABLE CONSTRUCTION TYPES

• **BARE FIBER** - A single glass fiber typically consisting of a core, cladding and 250µm acrylite coating.

• **TIGHT BUFFER** - A single bare fiber with an outer coating that is typical 900µm in diameter.

• **SIMPLEX** - A single fiber cable that may consist of a 900µm coated fiber or a combination of a 900µm coated fiber surrounded by an aramid yarn strength member with an outer jacket diameter varying from 3, 2, 1.8 and 1.6mm.

• **DUPLEX** - A two-fiber cable that consists of a combination of two 900µm coated fibers surrounded by an aramid yarn strength member with an outer jacket diameter varying from 3, 2, 1.8 and 1.6mm. Also can choose 900µm duplex cable where the two 900µm buffers are joined together (limited offering from manufacturers)

• **BREAKOUT** - Packages multiple 2.5-3.0mm jacketed fibers and surrounds these sub-units with an aramid yarn strength member and outer jacket. Fiber counts typically are 2-24 fibers. Primarily used in application where a rugged or robust cable is required.

• **DISTRIBUTION** - Packages multiple 900µm tight buffered fibers, surrounded by aramid yarn strength member, in a larger outer jacket. Fiber counts typically range from 2 – 144 fibers. Primarily used indoors and popular with interlocking armor for extra protection. Often referred to as MIC cable construction by other manufacturers.

• **MICRO-DISTRIBUTION** - Packages multiple 250µm buffered bare fibers of different colors within sub-units to minimize the outer jacket size. Fan-out kits or furcation tube often required to terminate connectors. Popular for indoor use with MTP/MPO connector and Fan-out assemblies in Data Center applications.

• **LOOSE TUBE** - Packages 250µm buffered fibers amongst each other in gel filled sub units typically 2.0-2.5mm. The gel filled tubes provide superior protection against changing temperatures and water filled conduits. Outer jacket is UV and moisture resistant.

• **LOOSE TUBE ARMORED** - Packages 250µm buffered fibers amongst each other in gel filled sub units typically 2.0-2.5mm. The gel filled tubes provide superior protection against changing temperatures and water filled conduits. The outer jacket is extruded over corrugated coated steel tape offering rodent proof protection, the jacket is UV and moisture resistant.

• **OUTDOOR DRY (GEL FREE) CABLE** - Packages 250µm buffered fibers within super absorbent polymer or water treated blocking aramid yarn.   Dry loose tube design improves ease of termination without gel filled tubes. Recommended for installation in ducts, underground conduit or aerial/lashing applications not intended for direct burial. Armored version of cable utilizes corrugated coated steel tape for rodent protection, with extruded UV resistant jacket.

• **DISTRIBUTION INTERLOCKING ARMORED** - Available with Riser or Plenum rated outer jacket this cable houses 900µm buffered fibers surrounded by aramid yarn with interlocking aluminum armor then extruded outer flame resistant jacket. Intended for harsh indoor environments requiring heavy duty protection.

• **TACTICAL CABLE** - Packages typically multiple 2.0-2.5mm jacketed subunits surrounded by aramid yarn with epoxy/fiberglass strength member. Rugged design for heavy duty applications such as TV cameras, mining/harsh environments and military/commercial field re-deployable communications. Tactical Distribution packages 900µm fiber rather than larger subunits.

Why is FIS a Leading Supplier of Custom Fiber Optic Assemblies...

1. Flexibility
- Wide Selection of components from leading manufacturers
- Ability to build to Engineering specifications or drawings
- From a quantity of 1 or 1,00's FIS can deliver

2. Fast Delivery / High Quality
- Cables are ready to ship nationwide and internationally in as little as 2-3 days
- 100% inspection and tested to industry standards
- ISO 9001-2008 Certified
- Over 25 years of cable assembly experience

3. Additional Services
- Termination of Customer Supplied Materials
- Creation of Engineer drawings of assemblies
- Custom packaging, labeling
- Experienced engineering team to help design an assembly for any application

Our goal is to provide our customers exactly what they need and when they need it, just provide our sales representative a description, engineering specification, or even a drawing on a napkin and we will do the rest!!

CUSTOM FIBER OPTIC CABLE ASSEMBLY CONFIGURATOR:

Use this chart to build cable you need to your exact specifications.

CABLE TYPE	FIBER TYPE	CONNECTOR SIDE A	CONNECTOR SIDE B	CONNECTOR MFG
S	3	7A	8U	

CABLE TYPE:
S=Simplex 3.0mm
D=Duplex 3.0mm
B=Breakout
C=Distribution
G=GGP Fiber Cable
L=Loose Tube
I=Indoor/Outdoor
R=Ribbon
X=Duplex 1.6mm
E=250µm Bare Fiber
Y=Simplex 1.6mm
T=Simplex 2.0mm
V=Duplex 2.0mm
LA=Loosetube Armored
A=Armored Cable
PM=Polarization Maintaining
RF=Ribbon Fan-Out
ENC=Epoxy Node Cable
N=900µm Buffered Fiber
DB=Dry Block Cable Specialty
MD=Micro-Distribution
IG= Indoor/Outdoor Rated (250µm)
BA=Breakout Cable w/Interlocking Armor
TB= Tactical/Broadcast Cable
DA= Outdoor Gel Free Armored Cable
LZ=LSZH Cable
RA=Ribbon Interlocking Armored Cable
AER= Aerial
RD= Round Duplex
F= 1.8mm Simplex
H= 1.8mm Duplex

FIBER TYPE:
1=50/125µm - OM2
2=62.5/125µm - OM1
3=8-9/125µm - OS2
4=Other
5=100/140µm
6=200/230µm
7=960/1000µm (plastic)
8=BI 50µm 10Gig - OM3
9=BI Singlemode
10=BI 50µm 10Gig - OM4

CONNECTOR SIDE A:
1=SMA905
2=SMA906
3=Biconic
4=FC/Stainless Alloy
5=ST/Stainless Alloy
6=D4
7=FC/PC
7U=FC/UPC
7A=FC/APC
8=ST/PC
8=ST/APC
8U=ST/UPC
Y=SC/PC
YU=SC/UPC
YA=SC/APC
D=SC Duplex w/ Clips
L=LC/PC
LU=LC/UPC
LA=LC/APC
C=LC Duplex w/ Clips

CONNECTOR SIDE B:
W=FDDI
X=Escon
F=Ferrule Only
M=MU/PC
MU=MU/UPC
9A=PM-FC/APC
9U=PM-FC/UPC
P=Pigtail
AU=High Performance FC/UPC
AA=High Performance FC/APC
BU=High Performance SC/UPC
BA=High Performance SC/APC
EU=E2000/UPC
EA=E2000/APC
MJ=MTRJ (no pins)
MT=MTP (w/pins)
MP=MTRJ (w/pins)
MF=MTP (no pins)
VF=VF45

CONNECTOR MFG:
NP= No Preference
FIS= FIS
M= 3M
MO= Molex
S= Seikoh Giken
CCS= Corning
U= USConec
CUS= Customer Supplied

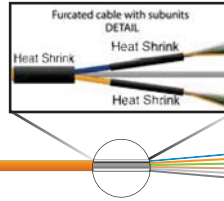# Configuration Illustration

CLIPPED DUPLEX PATCHCORD
Standard Polarity A to B / B to A

SIMPLEX PATCHCORD

UNCLIPPED DUPLEX PATCHCORD

Epoxy Node Connector

NODE CABLE ASSEMBLY

Furcated cable with subunits
DETAIL
Heat Shrink   Heat Shrink

Heat Shrink

DISTRIBUTION - INDOOR/OUTDOOR ASSEMBLY
2-144 Fiber (ex. 6 Fiber Assembly)

RIBBON FANOUT ASSEMBLY

LOOSE TUBE CABLE ASSEMBLY

	MODE	LENGTH (IN METERS)	CABLE MFG	CABLE RATING	FIBER COUNT	BUILD-UP BREAKOUT	PULLING EYE INSTALLED
	S	**X**	**TLC**				
	S= Singlemode M= Multimode H= Hybrid P= PM Fiber		NP= No Preference TLC= TLC MHK= Mohawk CCS= Corning AFL= AFL GCC= General Cable OCC= OCC HIT= Hitachi OTH= Other CUS= Customer Supplied	NP= No Preference RI= OFNR (Riser) PL= OFNP (Plenum) LZ= LSZH (Low Smoke) UV= Polyethylene/Outdoor	04=4 Fiber 06=6 Fiber 12=12 Fiber 24=24 Fiber 48=48 Fiber 72=72 Fiber 96=96 Fiber 144=144 Fiber	Z9=900µm Z1=1.8mm Z2=2mm Z3=3mm	PE= Outside End Only PBE= Both Ends

Part # Example:
S-3-7A-8U-FIS-S-3-TLC-RI
Translates to: Simplex 9/125 FC/APC - ST/UPC with FIS brand connectors, singlemode, 3 meter, TLC cable, riser patchcord

What our Customers are saying!

" FIS has been a great resource to not only provide high quality cable assemblies but also help out in the tough situations; when I need a cord tomorrow for a network turn up, or finding a solution to unique problem they are always there. I have yet to be disappointed."

Dave G
Applications Engineer

molex®   MOHAWK   HCM Hitachi Cable Manchester   OCC OPTICAL CABLE CORPORATION   USCONEC   SEIKOH GIKEN
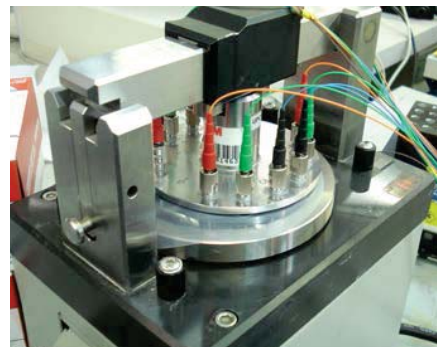
COUPLERS / SPLITTERS

FIS couplers and WDM's are designed, manufactured, and tested to meet a variety of high performance and environmental requirements. Our high qualitiy couplers are available in single wavelength and dual window varieties in an assortment of split ratios. Our WDM's feature low insertion loss in combination with high isolation. All device types are avaliable in bare fiber, 900μm, or 3mm ruggedized versions and can be terminated with your choice of connectors or installed in a variety of modules.

SINGLEMODE DUAL WINDOW COUPLERS/SPLITTERS

PART #	DESCRIPTION	PRICE
250μm		
SDW13550122UC	1x2 (1310/1550nm) 50/50 Ratio	$19.95
SDW13510122UC	1x2 (1310/1550nm) 10/90 Ratio	19.95
SDW13520122UC	1x2 (1310/1550nm) 20/80 Ratio	19.95
SDW13530122UC	1x2 (1310/1550nm) 30/70 Ratio	19.95
SDW13540122UC	1x2 (1310/1550nm) 40/60 Ratio	19.95
SDW13550222UC	2x2 (1310/1550nm) 50/50 Ratio	19.95

PART #	DESCRIPTION	PRICE
900μm		
SDW13550129UC	1x2 (1310/1550nm) 50/50 Ratio	$21.95
SDW13510129UC	1x2 (1310/1550nm) 10/90 Ratio	21.95
SDW13520129UC	1x2 (1310/1550nm) 20/80 Ratio	21.95
SDW13530129UC	1x2 (1310/1550nm) 30/70 Ratio	21.95
SDW13540129UC	1x2 (1310/1550nm) 40/60 Ratio	21.95
SDW13550229UC	2x2 (1310/1550nm) 50/50 Ratio	21.95
SDW1351X3333333129C	1x3 (1310/1550nm) 33/33/33 Ratio	53.00

MULTIMODE COUPLERS/SPLITTERS (800-1600nm)

PART #	DESCRIPTION	PRICE
250μm		
MMC28550122C	1x2 62.5/125μm Coupler 50/50 Ratio 250μm Fiber	$29.95
MMC38550122C	1x2 50/125μm Coupler 50/50 Ratio 250μm Fiber	29.95
900μm		
MMC28550129C	1x2 62.5/125μm Coupler 50/50 Ratio 900μm Fiber	$31.95
MMC28550229C	2x2 62.5/125μm Coupler 50/50 Ratio 900μm Fiber	31.95
MMC38550129C	1x2 50/125μm Coupler 50/50 Ratio 900μm Fiber	31.95

WAVELENGTH DIVISION MULTIPLEXERS

A Wave Division Multiplexer (WDM) is a coupler that enables you to channel a signal to multiple devices operating at different wavelengths.

PART #	DESCRIPTION	PRICE
250μm		
WDM13550122UC	1x2 Sm Dual Window (1310/1550nm) WDM 250μm Fiber	$19.95
900μm		
WDM13500129UC	1x2 Sm Dual Window (1310/1550nm) WDM 900μm Fiber	$21.95
WDM13500229UC	2x2 Sm Dual Window (1310/1550nm) WDM 900μm Fiber	21.95

PLANAR LIGHTWAVE CIRCUIT COUPLERS/SPLITTERS

Today's high-port-count applications for broadband system applications demand the best performance and the highest reliability under the most adverse of environments. Planar Lightwave Circuit Splitters deliver on all these requirements. FIS provides a variety of PLC's pre-terminated with SC/UPC, SC/APC or the connector of choice.

F1-PLC-08-SCU

PART #	DESCRIPTION	PRICE
F1PLC04	1x4 PLC Unconnectorized	$86.65
F1PLC08	1x8 PLC Unconnectorized	93.35
F1PLC16	1x16 PLC Unconnectorized	150.00
F1PLC32	1x32 PLC Unconncectorized	235.00
F1-PLC-04-SCU	1x4 PLC with Fan Out & SC/UPC Connectors	107.00
F1-PLC-08-SCU	1x8 PLC with Fan Out & SC/UPC Connectors	130.00
F1-PLC-16-SCU	1x16 PLC with Fan Out & SC/UPC Connectors	218.00
F1-PLC-32-SCU	1x32 PLC with Fan Out & SC/UPC Connectors	366.00
F1-PLC-04-SCA	1x4 PLC with Fan Out & SC/APC Connectors	110.00
F1-PLC-08-SCA	1x8 PLC with Fan Out & SC/APC Connectors	135.00
F1-PLC-16-SCA	1x16 PLC with Fan Out & SC/APC Connectors	230.00
F1-PLC-32-SCA	1x32 PLC with Fan Out & SC/APC Connectors	388.00

NEW Lower Price!

RUGGEDIZED 2mm/3mm JACKETED COUPLERS/SPLITTERS

Install these ruggedized splitters into outdoor or indoor enclosures. The 2mm or 3mm furcated fiber legs offer extra protection when technicians are working in compact areas. The splitter/couplers are housed in a small plastic case; furcated fiber legs are attached with or without connectors installed.
Custom size jacketing/split ratios/connector styles available.

RSC-1-S-2-50-Y-Y-3

PART #	DESCRIPTION	PRICE
RSC-3-S-2-50-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 50/50 split, SC/APC-SC/APC, 2mm jacketing	$86.00
RSC-3-S-2-45-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 55/45 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-3-S-2-40-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 60/40 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-3-S-2-30-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 70/30 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-3-S-2-05-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 90/5 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-1-S-2-50-Y-Y-3	Ruggedized Splitter, 50μm, 1 x 2, 50/50 split, SC/PC-SC/PC, 3mm jacketing	90.00
RSC-1-S-2-40-Y-Y-3	Ruggedized Splitter, 50μm, 1 x 2, 60/40 split, SC/PC-SC/PC, 3mm jacketing	90.00

PACKAGED NETWORK COUPLER

Housed and connectorized with your specified connector are 1X2 or 1X4 multimode or singlemode splitters. Also available in same packaging is singlemode 1310/1550nm Wave Division Multiplexer (WDM). Specify core/clad size, connector style, and split ratio. (Highest port count available is 1X4).

PART #	DESCRIPTION	PRICE
PNC-3-S-2-50-YU-YU	Packaged Network Coupler Box, Singlemode, 50/50 split, 1x2 SC/UPC Adapters	$150.00
PNC-3-S-2-10-YU-YU	Packaged Network Coupler Box, Singlemode, 90/10 split, 1x2, SC/UPC Adapters	150.00
PNC-3-S-4-EV-YU-YU	Packaged Network Coupler Box, Singlemode, Even split, 1x4, SC/UPC Adapters	239.00

Other Configurations Available - Call FIS Representative

PNC-3-S-2-50-YU-YU

BUILD YOUR OWN CUSTOM SPLITTER COUPLER MODULE/PACKAGE

BOX STYLE	CORE/CLAD SIZE	DEVICE/ CHANNELS	CONFIGURATION	SPLIT RATIO	CONN. TYPE (INPUT)	CONN. TYPE (OUTPUT)	OPTIONS
RMC	3	S	2	20	8U	8U	X

RMC = LGX Style Rack Mount	1=50/125µm - OM2	S - Splitter/Coupler	2-1x2	01= 01/99	7= FC/PC	7= FC/PC	1 - 250µm Bare Fiber
RSC = Ruggedized Style Splitter	2=62.5/125µm - OM1	W - WDM	3-1x3	05= 05/95	7U= FC/UPC	7U= FC/UPC	2 - Ruggedized 2mm Jacket
PNC = Packaged Network Coupler	3=8-9/125µm - OS2	D - DWDM	4-1x4	10= 10/90	7A= FC/APC	7A= FC/APC	3 - Ruggedized 3mm Jacket
BC = No Box, Standard Package	8=50µm10Gig - OM3	CM-CWDM MUX	5-1x5	20= 20/80	8= ST/PC	8= ST/PC	4 - Tree Coupler (Cascade)
	10= 50µm10Gig - OM4	CD-CWDM Demux	6-1x6	25= 25/75	8U= ST/UPC	8U= ST/UPC	5 - 900µm Buffered Fiber
		AC-1291-1351	7-1x7	30= 30/70	Y=SC/PC	Y= SC/PC	6 - Single Module
		BC-1471-1531	8-1x8	40= 40/60	YU= SC/UPC	YU= SC/UPC	7 - Double Module
		CC-1511-1571	12-1x12	50= 50/50	YA= SC/APC	YA= SC/APC	8 - 1U Rack Mount
		DC-1551-1611	16-1x16	EV= Even			
		LC-1471-1611	32-1x32				
			64-1x64				

Part # Example:
RMC-3-S-2-20-8U-8U-6

Translates to: Rack Mount Coupler Module,Single-mode 1x2, 20/80 Split Ratio, ST/UPC Input & Output SINGLE WIDTH MODULE

SSCA1X1615500

FIS HIGH PORT COUNT SM COUPLERS

PART #	DESCRIPTION	DIMENSIONS	PRICE
SSSCA1X43529C	SM Tree Coupler Module, 1x4, 1310/1550nm 900µm	100 X 80 X 10mm	$65.00
SSSCA1X815510	SM Tree Coupler Module, 1x8, 1550nm, 900µm	125 X 96 X 16mm	115.00
SSSCA1X1615500	SM Tree Coupler Module, 1x16, 1550nm, 900µm	125 X 96 X 16mm	240.00

RACK MOUNTABLE SPLITTER MODULES

These LGX style rack mountable splitter/coupler modules are convenient for quick installation and protect components from being damaged. Simply install module into compatible LGX style fiber enclosure, plug in plant cable and/or patchcords for distribution of optical signal. Custom configurations/split ratios/connector styles available.

PART #	DESCRIPTION	PRICE
RMC-3-S-2-50-YU-YU-6	LGX Style Module, 1x2, 50/50 split, SC/UPC	$175.00
RMC-3-S-2-50-YA-YA-6	LGX Style Module, 1x2, 50/50 split, SC/APC	185.00
RMC-3-S-2-35-YU-YU-6	LGX Style Module, 1x2, 65/35 split, SC/UPC	175.00
RMC-3-S-2-20-YA-YA-6	LGX Style Module, 1x2, 80/20 split, SC/APC	185.00
RMC-3-S-2-10-YA-YA-6	LGX Style Module, 1x2, 90/10 split, SC/APC	185.00

CWDM LGX STYLE MODULES

FIS CWDM LGX modules provide the most economic and efficient wavelength division multiplexing solution. Available in 4, 8 or 16 channel mux and demux configurations. The CWDM modules are bi-directional, have low insertion loss and feature 20nm channel separation.   DWDM modules also available. Other configurations available.

PART #	DESCRIPTION	PRICE
RMC-3-CM-8-LC-YA-YA-6	CWDM LGX Module, 8 Channel, 1471-1611nm, 20nm spacing, Mux, SC/APC Adapters	$875.00
RMC-3-CD-8-LC-YA-YA-6	CWDM LGX Module, 8 Channel, 1471-1611nm, 20nm spacing, Demux, SC/APC Adapters	875.00
RMC-3-CM-4-BC-YA-YA-6	CWDM LGX Module, 4 Channel, 1471-1531nm, 20nm spacing, Mux, SC/APC Adapters	449.00
RMC-3-CD-4-BC-YA-YA-6	CWDM LGX Module, 4 Channel, 1471-1531nm, 20nm spacing, Demux, SC/APC Adapters	449.00
RMC-3-CM-4-TC-YA-YA-6	CWDM LGX Module, 4 Channel, 1551-1611nm, 20nm spacing, Mux, SC/APC Adapters	449.00
RMC-3-CD-4-TC-YA-YA-6	CWDM LGX Module, 4 Channel, 1551-1611nm, 20nm spacing, Demux, SC/APC Adapters	449.00

COMPACT CWDM PACKAGE

FIS CWDM compact package features channel spacing of 20nm with wide bandpass characteristics. Available in 4 or 8 channel wavelengths. These compact packages are ultra stable and highly reliable. Commonly used in splice tray applications or outdoor enclosures. Available in 1291-1611nm channel spacing.

4 Channel

8 Channel

PART #	DESCRIPTION	PRICE
BC-3-CM-8-LC-YA-YA-5	CWDM Compact Package, 8 Channel, 1471-1611nm, 20nm spacing, Mux, SC/APC Adapters	$610.00
BC-3-CD-8-LC-YA-YA-5	CWDM Compact Package, 8 Channel, 1471-1611nm, 20nm spacing, Demux, SC/APC Adapters	610.00
BC-3-CM-4-AC-YA-YA-5	CWDM Compact Package, 4 Channel, 1291-1351nm, 20nm spacing, Mux, SC/APC Adapters	310.00
BC-3-CM-4-BC-YA-YA-5	CWDM Compact Package, 4 Channel, 1471-1531nm, 20nm spacing, Mux, SC/APC Adapters	310.00
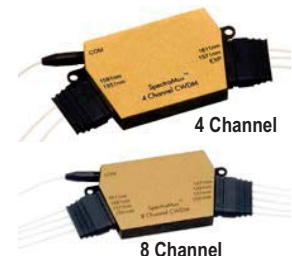
Assemblies

MD-8-MT-MT-M-**-FIS-072-PLN

Made in the USA

DATA CENTER

BACKBONE TRUNK CABLES

FIS offers high quality high-count MTP fiber optic assemblies. The cables range from 12 to 144 fibers, in 12-fiber sub-units. The most common configurations for Data Centers are 50µm 10Gig (OM3) or Singlemode (OS1) type fibers. All cables are UL plenum rated and can be used in riser spaces. Each fiber in every connector comes pre-tested with test results. The cables come ready to be plugged-in. These high-count cables are optimal for use in Data Centers and other high-density installations. The MTP male connector is the standard, but custom cables using MTP female as well as MTP to hybrid assemblies are available. Please contact your FIS sales associate for custom MTP cable assemblies.

PART #	DESCRIPTION	TERMINATION PRICE	CABLE PRICE
MD-8-MT-MT-M-**-FIS-012-PLN	12-fiber, 50µm 10Gig/OM3, (1) MTP/male - (1) MTP/male, plenum	$71.50	$2.68 / Mtr
MD-3-MT-MT-S-**-FIS-012-PLN	12-fiber, 9µm SM/OS1,(1) MTP/male - (1) MTP/male, plenum	84.00	1.37 /Mtr.
MD-8-MT-MT-M-**-FIS-024-PLN	24-fiber, 50µm 10Gig/OM3, (2) MTP/male - (2) MTP/male, plenum	143.00	5.55 /Mtr.
MD-3-MT-MT-S-**-FIS-024-PLN	24-fiber, 9µm SM/OS1, (2) MTP/male - (2) MTP/male, plenum	168.00	2.52 /Mtr.
MD-8-MT-MT-M-**-FIS-036-PLN	36-fiber, 50µm 10Gig/OM3, (3) MTP/male - (3) MTP/male, plenum	214.50	8.25 /Mtr.
MD-3-MT-MT-S-**-FIS-036-PLN	36-fiber, 9µm SM/OS1, (3) MTP/male - (3) MTP/male, plenum	252.00	3.51 /Mtr.
MD-8-MT-MT-M-**-FIS-048-PLN	48-fiber, 50µm 10Gig/OM3, (4) MTP/male - (4) MTP/male, plenum	286.00	11.08 /Mtr.
MD-3-MT-MT-S-**-FIS-048-PLN	48-fiber, 9µm SM/OS1, (4) MTP/male - (4) MTP/male, plenum	336.00	3.69 /Mtr.
MD-8-MT-MT-M-**-FIS-072-PLN	72-fiber, 50µm 10Gig/OM3, (6) MTP/male - (6) MTP/male, plenum	429.00	16.49 /Mtr.
MD-3-MT-MT-S-**-FIS-072-PLN	72-fiber, 9µm SM/OS1, (6) MTP/male - (6) MTP/male, plenum	504.00	4.40 /Mtr.

** Trunk cable pricing = termination + per meter cable **
Example: 50 meter 24-fiber SM cable: $168.00 (termination) + $126.00 ($2.52 x 50 meters) = $294.00 total

CUSTOM MTP BACKBONE CABLE ASSEMBLY CONFIGURATOR:

Use this chart to build cable you need to your exact specifications.

| CABLE STYLE	FIBER	CONN. #1	CONN. #2	MODE	LENGTH (IN METERS)	MFG	FIBER COUNT	JACKET	P/E
X	X	X	X	X	X	FIS	X	X	X
MD = Micro-Distribution	1 = 50µm MM - OM2 2 = 62.5µm MM - OM1 3 = 9µm SM - OS2 8 = 50µm 10Gig - OM3 10 = 50µm 10Gig - OM4	MT = MTP male MF = MTP female	MT = MTP male MF = MTP female YU = SC/UPC YA = SC/APC LU = LC/UPC LA = LC/APC 8U = ST/UPC 7U = FC/UPC 7A = FC/APC	S = Singlemode M = Multimode			012 = 12-fiber 024 = 24 fiber 036 = 36 fiber 048 = 48 fiber 072 = 72 fiber	R = Riser PL = Plenum LZ = Low Smoke Zero Halogen	P/E = Pulling Eye

A

F1-MTP/F-LC-OS1-12

B

F1-MTP/F-LC-OM3-24

MTP CASSETTES

FIS offers a variety of low-loss MTP cassettes for Data Center and high-density solutions. The standard cassettes can accommodate 12 and 24 ports. This is done by utilizing the LC connector for the front interface. The cassettes can be made with any type of fiber. The standard fiber types used are 50µm 10gig (OM3) and Singlemode (OS1). Up to 3 cassettes can fit into the FIS 1U rack mount closure: F1-RU24. Cassettes using connectors other than LC can also be made. Please contact your FIS sales associate for custom cassettes.
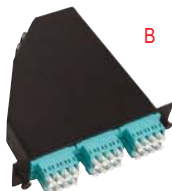
PART #	DESCRIPTION	PRICE
F1-MTP/F-SC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/female port, 6 SC/duplex ports	$150.00
F1-MTP/F-SC-OS1-12	12-fber SM, 1 rear MTP/female port, 6 SC/duplex ports	190.00
F1-MTP/F-LC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/female port, 6 front LC/duplex ports	150.00
F1-MTP/F-LC-OS1-12	12-fiber SM, 1 rear MTP/female port, 6 front LC/duplex ports (A)	190.00
F1-MTP/F-LC-OM3-24	24-fiber 50µm OM3, 2 rear MTP/female ports, 6 front LC/quad ports (B)	270.00
F1-MTP/F-LC-OS1-24	24-fiber SM, 2 rear MTP/female ports, 6 front LC/quad ports	350.00

** Also available with MTP / Male Ports and/or SC ports **
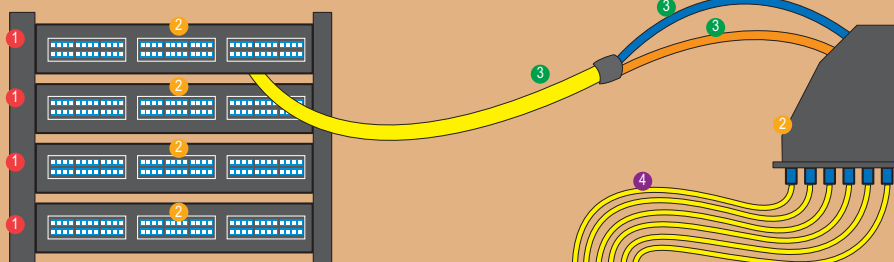
DID YOU KNOW   TYPICAL MTP/MTO TRUNK CABLE CONFIGURATION

DIAGRAM KEY

1 Rack Mount Enclosures
2 MTP Cassettes
3 MTP Backbone Trunk Cable
4 Patchcords

FIS provides specialized assemblies to the Military and Broadcast Industries. Count on us for custom broadcast or military grade tactical fiber optic cable assemblies with up to 12 fibers, in cables that are crush-resistant, resilient and with a thick layer of aramid strength members. The reinforced Kevlar jacket is strong enough to withstand the weight of a truck making these assemblies ideal for temporary field production, sporting events, and military operations. Call us today for more information and detailed specifications. Our cable assemblies can be terminated with a variety of specialized connectors such as Expanded Beam, TFOCA II® or SMPTE Connectors. These specialized connectors can also be paired with standard connectors (SC, LC, FC, ST etc.).

CUSTOM FIBER OPTIC CABLE ASSEMBLY CONFIGURATOR:

Use this chart to build cable you need to your exact specifications.

CABLE TYPE	CORE SIZE	CONN. #1	CONN. #2	MODE	LENGTH	MULTIFIBER	OPTIONS
BC	2	8	Y	M	X	4	RL

CABLE TYPE
BC=Broadcast
T=Tactical

CORE SIZE
1=50/125µm (MM)
2=62.5/125µm (MM)
3=9/125µm (SM)

CONN. #1
FUW=Lemo cable mounted Plug
PUW=Lemo cable mounted Receptacle
FXW=Lemo panel mounted Plug
EDW=Lemo panel mounted Receptacle
KE=Fischer cable Receptacle
SE=Fischer cable Plug
T2P=TFOCA II® Plug
T2R=TFOCA II® Recept. "Jam Nut"
T2F=TFOCA II® Recept. "Flange Mount"
EP=StratosExpanded Beam Plug
EBB=Stratos Expanded Beam Recept. "Jam Nut"
EBF=Stratos Expanded Beam Recept. "Flange Mount"
DP=Delphi Hermaphroditic Plug
DB=Delphi Hermaphroditic Bulk Head
LP= Tyco LC ODVA Plug (Duplex)
LB= Tyco LC ODVA Recept. (Duplex)
8=ST Style Connector
Y=SC Style Connector
7=FC Style Connector
L=LC Style Connector

CONN. #2
FUW=Lemo cable mounted Plug
PUW=Lemo cable mounted Receptacle
FXW=Lemo panel mounted Plug
EDW=Lemo panel mounted Receptacle
KE=Fischer cable Receptacle
SE=Fischer cable Plug
T2P=TFOCA II® Plug
T2R=TFOCA II® Recept. "Jam Nut"
T2F=TFOCA II® Recept. "Flange Mount"
EP=StratosExpanded Beam Plug
EBB=Stratos Expanded Beam Recept. "Jam Nut"
EBF=Stratos Expanded Beam Recept. "Flange Mount"
DP=Delphi Hermaphroditic Plug
DB=Delphi Hermaphroditic Bulk Head
LP= Tyco LC ODVA Plug (Duplex)
LB= Tyco LC ODVA Recept. (Duplex)
8=ST Style Connector
Y=SC Style Connector
7=FC Style Connector
L=LC Style Connector

MODE
S= Singlemode
M= Multimode

LENGTH
X= FEET

MULTIFIBER
4= 4 Fiber
6= 6 Fiber
12= 12 fiber

OPTIONS
RL= Black steel Reel w/ wheels

FIS HAS AN AVERAGE OF 1 WEEK TURNAROUND

Pigtails Available

SMPTE CABLE ASSEMBLIES

These rugged stainless steel out shelled SMPTE connectors ensure a very long product life. Cable assemblies utilize two singlemode fiber contacts, two power contacts and two signal contacts. Cable assembles are available with multiple configurations including panel mount receptacles and plugs.

- Quick Push-Pull Self Latching System
- Stainless Steel for Harsh Environment
- Complies with SMPTE Signal Requirements
- Popular HDTV Connection on Cameras and Panels

PART #	DESCRIPTION	PRICE
BC-3-FUW-PUW-S-100-LE	LEMO SMPTE assembly PUW(receptacle) to FUW(plug) 100 feet	$830.00
BC-3-FUW-PUW-S-250-LE	LEMO SMPTE assembly PUW(receptacle) to FUW(plug) 250 feet	999.00
BC-3-FUW-PUW-S-500-LEM	LEMO SMPTE assembly PUW(receptacle) to FUW (plug) 500 feet	1,299.00

*For other lengths add or subtract cable @ $1.15 per foot

TACTICAL FIBER OPTIC CABLE ASSEMBLIES

Amphenol Fiber Systems International TFOCA and TFOCA II® are designed to withstand repeated handing and mating cycles typically required for rapid fiber optic cable deployment and retrieval in a tactical environment. TFOCA is the replacement for US Army and US Marine Corps legacy systems with TFOCA (AT&T). It's a hermaphroditic design for multimode or singlemode fiber utilizing Biconic termini.

PART #	DESCRIPTION	PRICE
T-3-T2P-T2P-S-100-FBL-4	TFOCA II® (plug)-TFOCA-II (plug) 4 channel 100 Feet	Call
T-3-T2P-T2P-S-100-FBL-12	TFOCA II® (plug)-TFOCA-II (plug) 12 channel 100 Feet	Call
T-3-T2R-8U-S-10-FBL-4	TFOCA II® (Jam Nut Recpt)- ST/UPC 4 channel 10 Feet	Call
T-3-T2R-LU-S-10-FBL-4	TFOCA II® (Jam Nut Recpt)- LC/UPC 4 channel 10 Feet	Call
T-3-T2R-YU-S-10-FBL-12	TFOCA II® (Jam Nut Recpt)- SC/UPC 12 channel 10 Feet	Call

*All cables listed above are Singlemode fiber.

TFOCA-II® is a registered trademark of Amphenol Fiber Systems International

SMPTE & Tactical Cable Assembly Repair Service

Our repair service is perfect if you want to save time and money. SMPTE cable assemblies can cost thousands of dollars, so it's good to know all of your options. You can ship your SMPTE or tactical cable assembly to us and we can repair it for a fraction of what it might cost for new. Our service includes an evaluation, repair, and testing to make sure your cable assembly is going to perform when you need it.

4 CHANNEL HERMAPHRODITIC FIBER OPTIC CABLE CONNECTORS

Delphi's 4 Channel Hermaphroditic Connectors are both Single and Multimode compatible in the same connector. They are designed to withstand crush, impact, cable twist, bending movement, water and mud immersion, as well as many other harsh environments. They will link to identical connectors without regard to connector gender.

PART #	DESCRIPTION	PRICE
45675996H	4 Channel Male Plug	$171.09
1020169H	Plug Dust Cap	26.61
1144122H	4 Channel Female Jam Nut Receptacle	105.75
1144123-2H	Receptacle Dust Cap	26.61

45675996H

SEALED CIRCULAR LC ODVA CONNECTOR COMPONENTS

Rugged, yet affordable, LC optical connector system for applications requiring sealing. Compliant with ODVA requirements.

PART #	DESCRIPTION	PRICE
1828618-1	Plug Kit (MM with LC Duplex Connector)	$28.50
1828618-2	Plug Kit (SM with LC Duplex Connector)	38.05
1828619-1	Receptacle Kit (MM with LC Duplex Adapter)	30.30
1828619-2	Receptacle Kit (SM with LC Duplex Adapter)	32.32
1828740-1	Plug Dust Cap (with Tether)	12.90
1918177-1	Receptacle Dust Cap (with Tether)	12.90

1828618-1

1828619-1

STRATOS HMA CONNECTORS & ADAPTERS

Stratos HMA Expanded Beam connectors are available in 1 to 4 channels, multimode or singlemode. They utilize a hermaphroditic interconnection with advanced expanded beam technology. The HMA connectors are rugged designed and field repairable. Order HMA cable assemblies built to your custom requirements.

MULTIMODE HMA CONNECTORS

PART #	DESCRIPTION	PRICE
631-00100-01	2ch Plug	$287.90
632-00100-01	2ch Jamnut BH	225.00
631-00101-01	4ch Plug	344.65
632-00101-01	4ch Jamnut BH	344.65

SINGLEMODE HMA CONNECTORS

PART #	DESCRIPTION	PRICE
631-00202-01	2ch Plug	$397.25
632-00206-01	2ch Jamnut BH	397.25
631-00200-01	4ch Plug	476.15
632-00205-01	4ch Flange Mount Bulkhead	476.15
632-00200-01	4ch Jamnut Bulkhead	476.15

631-00101-01

STRATOS "BULLET™" ADAPTERS

The Stratos "Bullet™" Adapters are designed to convert legacy TFOCA technology to increasingly popular Expanded Beam technology. The adapters are compatible with existing TFOCA and TFOCA II® connectors. Compact size eliminates the need for hybrid cables while supporting up to 4 channels of multimode fiber. Adapters mate with Stratos HMA Expanded Beam series.

• Interfaces with Legacy TFOCA Connectors
• Hermaphroditic Design
• Tested to Mil-83526 Requirements
• Full Metal Construction
• Simple Form Factor Conversions

PART #	COMPATIBLE END FACE	PRICE
766-00003-00	TFOCA	$858.15
766-00002-00	TFOCA II®	906.60
766-00002-01	TFOCA II®	927.35
766-00004-00	ST MM	816.65
766-00004-01	ST SM	830.45

TFOCA-II® is a registered trademark of Amphenol Fiber Systems International

766-00003-00

766-00002-00

Unterminated Connectors Available
Call An FIS Sales Representative For Pricing
and Configurations.
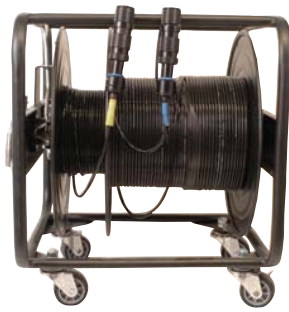
FIS BLUE BROADCAST CABLE REELS

Specially designed steel cable reels to transport or store your broadcast and fiber application. Stack them on your truck or in your warehouse or roll them wherever you like. Please ask about getting your next custom cable assembly on a reel.

PART #	DIMENSIONS	PRICE
YHP009C	480(L) x 450(W) x 535(H) mm (18.9 x 17.7 x 21.1in)	$399.00
YHP009B	570(L) x 450(W) x 535(H) mm (22.4 x 17.7 x 21.1in)	430.35
YHP009A	720(L) x 450(W) x 535(H) mm (29.5 x 17.7 x 21.1in)	433.12

FIS BLUE 19" SMPTE RACK MOUNT PANELS

• 19" Steel Panel   • EDW Panel Accommodates LEMO's PBW
• Black Finish   • FXW Panel Accommodates LEMO's FMW
• Six Position Punch-outs
• Available Unloaded or Custom Loaded Upon Your Request

PART #	DESCRIPTION	PRICE
FBRMEDW-BL	EDW Receptacle Rack-Mount Panel Unloaded	$85.00
FBRMFXW-BL	FXW Receptacle Rack-Mount Panel (Unloaded)	85.00

Ask about Custom Preloaded Panels

FIS BLUE BROADCAST / TACTICAL FIBER OPTIC BULK CABLE

FIS Blue Broadcast/Tactical Cable consists of a polyurethane outer jacket with your choice of two,four,six or twelve 900μm tight buffers surrounded by aramid yarn and an aramid ripcord. Polyurethane jacket makes the cable highly flexible and rugged, so it can also be used in direct burial applications. Tactical fiber optic cables are designed for harsh outdoor environments where maximum performance and reliability is essential.

PART #	FIBER COUNT	DESCRIPTION	PRICE
FB-SMTACCABLE4	4	4 Fiber Singlemode Tactical Cable	$1.87 /Mtr.
FB-SMTACCABLE6	6	6 Fiber Singlemode Tactical Cable	2.57 /Mtr.
FB-SMTACCABLE12	12	12 Fiber Singlemode Tactical Cable	3.49 /Mtr.
FB-MMTACCABLE4	4	4 Fiber Multimode Tactical Cable	2.55 /Mtr.
FB-MMTACCABLE6	6	6 Fiber Multimode Tactical Cable	3.28 /Mtr.
FB-MMTACCABLE12	12	12 Fiber Multimode Tactical Cable	5.24 /Mtr.

BROADCAST / TACTICAL FIBER OPTIC BULK CABLE

FIS offers broadcast/tactical fiber optic cables from both OCC and Mohawk Cable Corporation. These multifiber cables offer a variety of specifications that accommodate the following markets; outdoor/indoor broadcasting events, military and industrial communications. Minimums do apply on certain cables please call for more info.

PART #	FIBER COUNT	DESCRIPTION	PRICE
D004CWST5KM	4	OCC 62.5μm MM Mil Tactical Distribution Cable	$4.88 /Mtr.
D006CWST5KM	6	OCC 62.5μm MM Mil Tactical Distribution Cable	6.98 /Mtr.
D012CWST5KM	12	OCC 62.5μm MM Mil Tactical Distribution Cable	13.00 /Mtr.
D004CSLS5KM	4	OCC Single mode Mil Tactical Distribution Cable	3.28 /Mtr.
D006CSLS5KM	6	OCC Single mode Mil Tactical Distribution Cable	4.60 /Mtr.
D012CSLS5KM	12	OCC Single mode Mil Tactical Distribution Cable	8.20 /Mtr.
M96551	4	Mohawk 62.5μm MM Tactical Fiber Optic Cable	3.05 /Mtr.
M96572	6	Mohawk 62.5μm MM Tactical Fiber Optic Cable	4.42 /Mtr.
M96575	12	Mohawk 62.5μm MM Tactical Fiber Optic Cable	6.26 /Mtr.
M96639	4	Mohawk Singlemode Tactical Fiber Optic Cable	2.50 /Mtr.
M96567	6	Mohawk Singlemode Tactical Fiber Optic Cable	3.31 /Mtr.
M96570	12	Mohawk Singlemode Tactical Fiber Optic Cable	4.10 /Mtr.
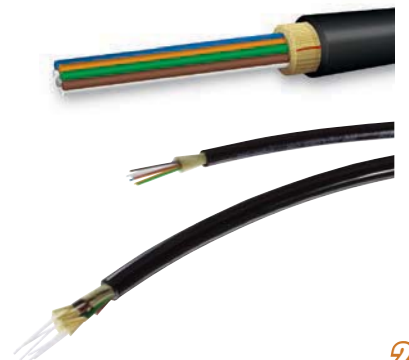
F1HHVMP200SMPTE

HAND HELD MONITOR & MICROSCOPE PROBE FOR SMPTE

This video microscope has a large, bright 5.6" display in a compact and portable housing. Detect hard to find flaws with the variable core illumination and adjust the video contrast and brightness for optimal viewing. The Probe features coated optics for bright, clear images. The ergonomic design is comfortable to operate and focuses precisely on the connector endface. Li-Ion power ensures long battery life for field use or can be used with the included AC charger. Specify one adapter of your choice when ordering.

FEATURES
- Compact Housing and Probe
- Large 5.6 inch Display
- Adjustable Brightness, Contrast and Core Illumination
- Interchangeable Adapter Tips
- LED Flashlight Built into Housing

PART #	DESCRIPTION	PRICE
F1HHVMP200SMPTE	Hand Held Video Monitor & 200x Microscope Probe	$995.00
F1PVPASMPTEF	SMPTE Adapter - Female	60.00
F1PVPASMPTEM	SMPTE Adapter - Male	60.00
F1PVPA25	Universal 2.5mm Ferrule Inspection Probe Interface	60.00

AFC-3000/LEMO

SMPTE FERRULE CLEANING GUN

In-adapter ferrule cleaner can quickly remove contamination on connector endfaces and bulkheads. This easy to use cleaner can clean a connector in less than 5 seconds with no physical work. The AFC-3000/LEMO comes with cleaning gun, cartridge and LEMO tips.

- Clean SMPTE Connectors Fast!
- Remove 99.5% of Contaminants
- Solve Problems by Cleaning First
- Great for Field and Indoor Applications

PART #	DESCRIPTION	PRICE
AFC-3000/LEMO	In-Adapter Ferrule Cleaning Gun	$895.00
CFC-600LC-01	LEMO Replacement Cartridge	425.00

SMCLKIT

GROUND SHIPPING REQUIRED

SMPTE CLEANING KIT

This cleaning kit is ideal for both mobile units and studio applications. Use this kit to clean your LEMO and standard fiber optic connectors and be sure that you have a contaminant free endface. The following items are included with this kit in a zip-close bag.

- QBE Cleaning system
- Electro-Wash PX Fiber Optic Cleaner (ES810)
- 2.5mm Fiber Optic Swabs
- 2.0mm Fiber Optic Swabs
- Lint free Precision Wipes(6704F)
- Electro-Wash MX Presaturated Wipes (CP421)
- Lemo Alignment Tool (DSCF2035PN)

PART #	DESCRIPTION	PRICE
SMCLKIT	Basic SMPTE Cleaning Kit	$125.00

IBC™ M20 CLEANER

IBC™ Brand Cleaner M20 cleans SMPTE 304M connectors in broadcast and MIL/COTS 2.0mm connectors.The M20 is a mechanical cleaning tool designed to clean connectors residing in an adapter or faceplate and unmated connectors. The IBC™ cleaning tools use a novel dry cleaning strand to gently sweep and lift away dust and residues from the connector end face.

12926

PART #	DESCRIPTION	PRICE
12926	IBC™ M20 Cleaner M20 SMPTE 304M	$109.35

LEMO EXTRACTION TOOL

For inserting and removing contact sleeves for LEMO FUW connectors.

PART #	DESCRIPTION	PRICE
DCSF2035PN	LEMO Alignment Tool	$27.30

DCSF2035PN

FIS BLUE SMPTE TEST SET

FIS Blue's Ruggedized SMPTE Test Set is designed for harsh work conditions where handheld units are not appropriate. The SMPTE Test Set utilizes a remote loopback unit for single ended testing of both optical fibers as well as power for the built-in copper conductor tests. The set checks all 4 copper conductors for continuity and shorts as well as verifying the integrity of the grounding shield in the cable with simple pass/fail audible and visual indicators. The main control unit houses the optical fiber power meter readout, copper conductor test indicators, and the SMPTE fixed plug connector. The Remote Unit contains the SMPTE fixed socket connector.

FEATURES

- Single Test Checks Both Fibers for Loss and all 4 Copper Conductors for Continuity, Short Circuits and Ground Braid Integrity
- Simple Audible and Visual Pass/Fail Indicators for Copper Tests
- Designed for Harsh Environments in Ruggedized Housing
- Rechargeable NiMH Batteries
- Dual Singlemode Capabilities, 1310nm & 1550nm Wavelengths

SMPTE Ready Testing!

F1-STS01

PART #	DESCRIPTION	PRICE
F1-STS01-1	SMPTE Test Set	$2,950.00

PRODUCT SPECIFICATIONS

Power Meter Receiver	
Detector	2mm Germanium photo-diode
Wavelength Selection	1310nm, 1550nm
Noise Equivalent Power (NEP)	-65dBm Typical
Display Resolution	.01dB
Measurement Range	+5dBm to -60dBm @ 1310nm and 1550nm
Accuracy	+/- .3dB

Power (Main Control Unit)	
AC Power	110/120 or 220 volt AC Charger/Adapter
Battery	4 "AA" cells, NiMH
NiMH Battery Life (@ 25°C)	12 hours Typical
NiMH Recharge Time	9 hours Typical

Light Source Specifications	
Laser:	
Wavelengths	1310nm or 1550nm +/- 30nm
Output Power (9/125µm core)	-1 dBm Typical
Spectral Width (FWHM)	5nm Typical
Modulation Modes	CW, 2kHz

Temperature Range	
Operating	-10 to +50 deg. C (14 to 122 deg. F)
Storage	-40 to +60 deg. C (-40 to 140 deg. F)

Physical (Main Control Unit)	
Dimensions	8 1/4" Lx 6 1/2" W x 3 5/8" D
Weight	2.25 lbs

note: specifications subject to change without notice.

MC2 SERIES 3G/HD/SDI VIDEO BNC-ST MEDIA CONVERTERS

MC2 Video Media Converter modules offer extended distance over singlemode fiber for high-speed serial digital video links for multi-protocol 3G/HD/SDI/DVB/ASI video applications with data transfer rates up to 2.97Gbps.

- Cable Driver on RX
- Line Equalizer on TX
- ST Physical Contact Optical Interface
- +4.5 to 24 VDC Operating Voltage Range
- Power Supply Sold Separately or Included in Kit models
- RoHS-6 Compliant
- Rugged Construction
- Easy to Understand OLED Displays Simple, Real Time Operating Parameters and Diagnostics

PART #	DESCRIPTION	PRICE
MC2-K-P-2-F1	Includes: 1 Transmitter, 1 Receiver, 2 Power Supplies in rugged case	$1,770.00
MC2-T-P-2	Transmitter	826.00
MC2-R-P-2	Receiver	826.00

Save The Date
NFOC '12

September 25th - 26th • Turning Stone

For more Details Visit
www.northeast-fiber-optic-conference.com

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TEST EQUIPMENT

FIS FIBER OPTIC INSPECTION MICROSCOPE

The FIS Video Microscope is ideal for inspecting fiber optic connector endfaces in the field. This package combines a top quality Video Monitor and Handheld Inspection Probe at an affordable price.

The probe comes with interchangeable tips that enable you to inspect both male connectors and female bulkhead adapters. A large 5.6" LCD screen displays endfaces at 200x to ensure that connectors are clean and free of defects.

FIRECAT-1310

fis — FIBER INSTRUMENT SALES, INC.

Made In the USA
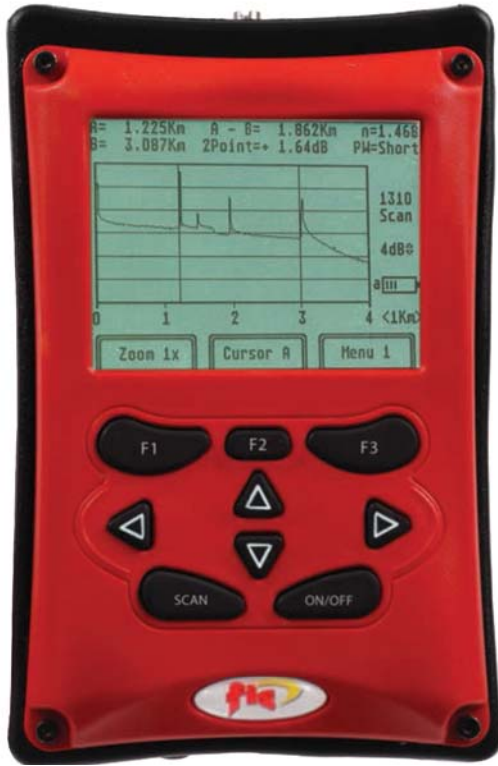
FIS FIRECAT OTDR

The FIS Firecat OTDR provides an industry leading value with its low cost and easy functionality. This unit is perfect for both inexperienced and experienced technicians alike with its simple on screen 'soft key menus'. By providing the essentials for fiber optic troubleshooting, this OTDR is the perfect tool for basic link troubleshooting and is affordable enough for every truck, office or tool kit.

FEATURES

- Dynamic Range - 23dB
- Lowest Cost OTDR in the Industry
- Easy Operation with 'Soft Key Menus'
- Small, Lightweight and Rugged
- Interchangeable Adapters
- Event Table and Auto-Test Modes
- USB Data Transfer
- Backlight Keypad and Screen for Easy Use in Dim Lighting Conditions
- Available in a Ruggedized Version for harsh conditions

Ruggedized Version

Side View of Handheld

Each Unit Includes: 110v AC adapter, Certification Software, Data Transfer Cable, SC Interchangeable Adapter, Soft Carry Case, and Instruction Manual
When purchasing unit for 220v application, 220v adapter must be purchased separately.

PART #	DESCRIPTION	PRICE
FIRECAT-850	Single Wavelength – Multimode 850nm	$1,995.00
FIRECAT-1300	Single Wavelength – Multimode 1300nm	1,995.00
FIRECAT-1310	Single Wavelength – Singlemode 1310nm	1,995.00
FIRECAT-1550	Single Wavelength – Singlemode 1550nm	1,995.00
FIRECAT-8513	Dual Wavelength - Multimode 850/1300	2,700.00
FIRECAT-1315	Dual Wavelength – Singlemode 1310/1550	2,700.00
FIRECAT-QUAD	Quad Wavelength – MM/SM 850/1300/1310/1550	4,500.00

NOTE: ADD "R" TO THE END OF THE PART NUMBER FOR RUGGEDIZED VERSION
Add Additional $100.00 to price (Example: FIRECAT – 850 – R = Single wavelength – Multimode 850 – Ruggedized)

ACCESSORIES

| PART #	DESCRIPTION	PRICE
FIRECAT-AC110	AC Adapter 110v	$35.00
FIRECAT-AC220	AC Adapter 220v	35.00
FIRECAT-CASE	Hard Carry Case	100.00
FIRECAT-USB	USB Flash Drive with Software	19.95
FIRECAT-CABLE	Data Transfer Cable	6.95
F1-FIRECAT-ST	ST Adapter	10.00
F1-FIRECAT-FC	FC Adapter	10.00
F1-FIRECAT-SC	SC Adapter	10.00

Made In the USA

FIS BOBCAT MINI OTDR

The Hand Held Bobcat OTDR has a generous 32 dB dynamic range and a short dead zone for testing FTTx fibers and networks up to the metro environment. It has an easy to read color display with fault finder, construction and expert/manual modes of operation. The OVP is shipped with Windows™/Telcordia SR-4731 compatible software that generates complete and professional documentation with the ability to include scope images and loss test results on the OTDR test reports.
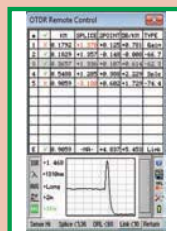
FEATURES:

- No Boot Up Time "Instant On"
- 32 dB Dynamic Range
- Short Dead Zone
- Trace Comparison with Trace Overlay
- Interactive Event Table with Pass/Fail Feature
- Fault Finder/Construction/Expert Modes
- Bright Color Display
- Onboard Memory for 1000 Traces
- Onboard, Context Sensitive Help
- Rugged Enclosure with Protective Boot
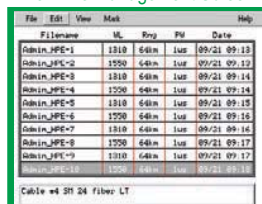
Loss Test Set

Event Analysis Screen

OVP-850

FIS ADVANCED MINI OTDR

The FIS Advanced Hand Held OTDR has up to 36dB dynamic range with a 1 meter dead zone. It is Ideal for testing PON systems or links up to 240km. The OVX has an integrated power meter, stable light source, video scope and a visual fault locator, making it a complete testing system, with and extremely intuitive operating system to keep learning curve as short as possible. The OVX stores ~500 traces and 10,000 power meter measurements which can be downloaded to a USB flash drive or through a USB cable. The OVX is shipped with Windows™/Telcordia SR-4731 compatible software that generates complete and professional reports with the ability to include scope images and loss test results. Models are available that include an active 1625nm port for up to four ITU standard CWDM wavelengths.

FEATURES

• No Boot Up Delay "Instant On"
• Up to 36dB Dynamic Range
• 1 Meter Dead Zone
• Interactive Event Table with Pass/Fail Feature
• Fault Finder/Construction/Expert Modes
• Bright Color Display
• Onboard Memory for ~500 Traces
• Onboard, Context Sensitive Help
• Rugged Enclosure with Protective Boot
• SM, MM, Triple and Quad Units Available
• USB Flash Drive Port and Mini USB Port
• Long Battery Life

New Home Screen

New File Management Screen

OVX-1315-TLS

Each Unit Includes: Universal Power Adapter with US, UK, Continental Europe and Australian plugs, Interchangeable FC/ST/SC Adapters for each OTDR and Power Meter Port, Windows™/Telcordia SR-4731 compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION	PRICE
OVX-8513-LTSE	850/1300nm with VFL + Optical Loss Test Set	$4,995.00
OVX-1315-LTSE	1310/1550nm with VFL + Optical Loss Test Set	4,995.00
OVX-QUAD-LTSE	850/1300/1310/1550nm with VFL + Optical Loss Test Set	6,995.00
OVX-131516-ACTLTSE	1310/1550nm and Active 1625nm with VFL + Optical Loss Test Set	6,495.00
OVX147/149/151/153CWDM	CWDM OTDR and Light Source w/VFL and Broadband Power Meter	7,995.00
OVX155/157/159/161CWDM	CWDM OTDR and Light Source w/VFL and Broadband Power Meter	7,995.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
OVX-USB	500MB USB Flash Drive loaded with Trace Viewing Software	$19.95
F1-VPMUSB	200x USB Probe (OVX Compatible)	725.00
F1-OVXHRDCASE	OVX OTDR Hard Case	99.00
OVXADAPTERSET	(1) SC, (1) ST, (1) FC Adapters for OVX & OVP Series	175.00
F1-OVXCASE	Soft Case w/Shoulder Strap	99.00

FIS OTDR KITS

PART #	DESCRIPTION	PRICE
OVH-1315-KIT	SM OTDR with Pulse Box, VFL, Connector Cleaner & Hard Case	$7,100.00
OVH-QUAD-KIT	Quad OTDR with Pulse Boxes, VFL, Connector Cleaner & Hard Case	8,900.00
OVH-1315-KIT-PL	SM OTDR with Pulse Boxes, VFL, PM & Dual Light Source, Connector Cleaner & Hard Case	8,600.00

Each Unit Includes: Universal Power Adapter w/US, UK, Continental Europe and Australian plugs, interchangeable FC/ST/SC Adapters for each OTDR port, Windows™/Telcordia SR-4731 compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION	PRICE
OVP-850	Single Wavelength - Multimode 850nm w/VFL and LTS	$2,995.00
OVP-1300	Single Wavelength - Multimode 1300nm w/VFL and LTS	2,995.00
OVP-1310	Single Wavelength - Singlemode 1310nm w/VFL and LTS	2,995.00
OVP-1550	Single Wavelength - Singlemode 1550nm w/VFL and LTS	2,995.00
OVP-8513	Dual Wavelength - Multimode 850/1300nm w/VFL and LTS	3,495.00
OVP-1315	Dual Wavelength - Singlemode 1310/1550nm w/VFL and LTS	3,495.00
OVPQUAD	Quad Wavelength - MM/SM 850/1300/1310/1550 w/LTS	5,495.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-OVXHRDCSE	Hard Transit Case for OVP and OVX	$99.00
OVP-BC	Auxiliary Charger Kit	100.00
OVX-ADAPTERSET	(1) SC, (1) ST, (1) FC Adapters for OVX & OVP Series	175.00

EXFO

EXFO FTB-200v2 MODULAR OTDR

The FTB-200v2 is the first true compact platform for the technician. Start testing triple-wavelength insertion loss at the CO or testing data integrity at the core, this unit has the power, speed and modularity. Many configurations and modules available, contact an FIS sales associate for additional information and specifications.

FEATURES
- Full Backward Compatibility with Previous Modules
- Provides Optional Built-in Bluetooth & Wi-Fi
- Provides 1 Gig Ethernet and 3 - USB 2.0 Ports
- Windows® Remote Assistance and Remote Control Features
- Intel ATOM Processor Running Windows® Embedded Standard OS
- Provides EXFO Fiber Inspection Probe Video Connector Interface

EXFO FTB-200 (POPULAR CONFIGURATIONS)

PART #	DESCRIPTION	PRICE
TK200S1RFD3EIEUI91	Wi-Fi, Bluetooth, Dual SM Module, SC Adapter	$7,615.00
TK200S1VPM2XFOA54D15EIEUI91	MM/SM OTDR, VFL, PM, SC/UPC Adapters	12,870.00
TK200S1RFD27EIEUI91	Wi-Fi, Bluetooth Long Haul Dual SM, SC Adapter	10,495.00
TK200S1RFD15EIEUI91	Wi-Fi, Bluetooth, Quad Module, SC Adapters	11,935.00

Rent it!

Build Your Own FTB-200v2

TK-200-V2-XX-XX-XX-XX-XX-XX-XX-XX-XX

Model
TK-200-V2 = Compact Modular Platform
($3,495.00 w/o Module)
($2,895.00 with Module Selection)

Display
S1 = TFT Active Screen (Standard)
S2 = Outdoor Enhanced Screen ($980.00)

Wi-Fi/Bluetooth Option
RF = With RF Capability - Wi-Fi and Bluetooth ($225.00)

Power Meter
VPM2X = VFL Platform, PM, Detector 02X ($1,160.00)
VPM3 = VFL Platform, PM, Detector 03 ($1,265.00)
VPM2-CWDM = VFL Platform, PM, Detector 02X, CWDM
Wavelengths Calibrated - From 1270-1610nm
($1,575.00)
VPM3-CWDM = VFL Platform, PM, Detector 03, CWDM
Wavelengths Calibrated - From 1270-1610nm
($1,675.00)

Connector Adapter - Included in Mainframe Price
FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
FOA-32 = ST: ST/PC, ST/SPC, ST/UPC, ST/APC
FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
FOA-98 = LC

ConnectorMax
FPSA = With Fiber Inspection Probe Analysis Software ($695.00)

Software Option
IPT = Ping Traceroute Software ($160.00)

Probe
FP4S = Inspection Probe - 400x ($1285.00)
FP4D = Inspection Probe - 200x/400x ($1,730.00)

OTDR Adapters (Place EA Before the Adater for APC Polish or EU for UPC Polish) - Included in Module Price
EUI-89 = FC Adapter
EUI-90 = ST Adapter
EUI-91 = SC Adapter

OTDR Module
D3 = Dual SM 1310/1550nm, 36/34dB ($4,495.00)
D15 = Quad 850/1300/1310/1550nm, 27/26/36/34dB ($8,815.00)
D27 = Tri-Wave 1310/1550/1625nm, 39/37/37dB ($10,885.00)
D28 = Tri-Wave 1310/1490/1550nm, 39/35/37dB ($10,715.00)
D23 = Dual SM 1310/1550nm, Visual Fault Locator, 50/50dB ($24,100.00)

Other configurations and modules available – contact a FIS sales associate for more details.

EXFO AXS-110 OTDR

The handheld AXS-110 Access OTDR is specifically designed for the FTTx installer, and is also ideal for premise testing. User-friendly with one-touch testing, summary screen and macrobend identification. Complete connectivity flexibility using USB stick or RJ-45/USB cable data download. Bi-directional analysis and live templating for OTDR testing. The AXS-110 Singlemode OTDR is ideal for FTTx/access and CATV testing. The AXS-110 Mul-timode OTDR is optimized for enterprise testing. FastReporter software with powerful batch processing is available.

Rent it!

FEATURES
- Dynamic Range - 24/25/32/30dB (850/1300/1310/1550nm)
- Tests through High-Port-Count Splitters
- Optional Power Meter, IP Testing and Fiber Inspection Probe
- Summary Screen to View all Results
- Exceptional 0.8 meter Event Dead Zone

AXS-110-23B

EXPERTISE REACHING OUT

EXFO FTB-1 MODULAR OTDR PLATFORM

The FTB-1 Platform is an open testing solution for network infrastructure construction and troubleshooting. The FTB-1's built-in intelligence empowers frontline technicians to take field-testing efficiency to the next level. Thanks to a highly "connected" set of tools—including Update Manager and compatibility with the EXFO Connect environment, which provides end-to-end operational visibility and centralized reporting capabilities throughout the entire test instrument pool—the FTB-1 delivers maximum return on your investment.

FEATURES
• Wide 7" TFT Color Touch Screen
• Optional Built-in Bluetooth & Wi-Fi
• 1 Gig Ethernet and 2 - USB 2.0 ports
• Windows® Remote Assistance and Remote Control Features
• Intel ATOM Processor Running Windows® Embedded Standard OS
• Optional EXFO Fiber Inspection Probe Video Connector Interface
• Full Hybrid Touch and Keypad to Suit any Environment

EXFO FTB-1 (POPULAR CONFIGURATIONS)

PART #	DESCRIPTION	PRICE
TK1S1RFFTB720023BEIEUI91	1310/1550nm 35/32dB Wi-Fi/Bluetooth SC/UPC	$6,360.00
TK1S1RFFTB730023BEIEUI91	1310/1550nm 39/37dB, Wi-Fi/Bluetooth, SC/UPC	8,610.00
TK1S1RFVPM354FTB730023BEIEUI91	1310/1550nm 39/37dB, Wi-Fi/Blue, VFL, PM, SC/UPC	9,875.00
TK1S1FTB72012CD23BEIEUI91	850/1300/1310/1550nm 26/25/35/32dB SC/UPC	10,455.00

Build Your Own FTB-1

TK-1-700-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX

Model
TK-1-700 Mainframe - ($1,795.00 w/o module)
($1,640.00 with module)

Display
S1 = TFT Active Screen (Standard)
S2 = Outdoor Enhanced Screen ($980.00)

Memory
XMEM = 16 GB Internal Memory - Flash ($230.00)

Battery
XBTY = Extended Life Rechargeable Lithium-Ion Battery ($110.00)

Wi-Fi/Bluetooth Option
RF = With RF Capability - Wi-Fi and Bluetooth ($225.00)

Power Meter
VFL1 = Visual Fault Locator Only ($780.00)
VPM3 = VFL; Power Meter; InGaAs Detector ($1,265.00)
VPM3-CWDM = VFL; Power Meter; InGaAs Detector;CWDM Wavelengths
Calibrated - From 1270 to 1610nm ($1,675.00)

Connecter Adapter - Included in Mainframe Price
FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
FOA-32 = ST: ST/PC, ST/SPC, SC/UPC, SC/APC
FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC

ConnectorMax
FPSA = With Fiber Inspection Probe Analysis Software ($695.00)

Software Option
IPT = Ping Traceroute Software ($160.00)

Probe
FP4S = Inspection Probe - 400x ($1,285.00)
FP4D = Inspection Probe - 200x/400x ($1,730.00)

OTDR Adapters (Place EA Before the Adater for APC Polish or EU for UPC Polish) - Included in Module Price
EUI-89 = FC Adapter
EUI-90 = ST Adapter
EUI-91 = SC Adapter

OTDR Modules
FTB-720-023B = Dual SM 1310/1550nm, 36/34dB ($4,495.00)
FTB-720-12CD-23B = Quad 850/1300/1310/1550nm, 26/25/35/32dB ($8,815.00)
FTB-730-000-04 = 1625nm SM, 39dB - For live Fiber Testing ($9,895.00)
FTB-730-023B-04 = Tri-Wave 1310/1550/1625, 39/37/39dB ($11,515.00)

Other configurations and modules available – contact a FIS sales associate for more details.

EXFO ACCESSORIES

PART #	DESCRIPTION	PRICE
FOA-32	ST adapter for Power Meter	$70.00
FOA-54	SC adapter for Power Meter	70.00
FOA-22	FC adapter for Power Meter	70.00
FOA-98	LC adapter for Power Meter	140.00
FOA-U12	Universal 1.25mm adapter for Power Meter	150.00
FOA-U25	Universal 2.5mm adapter for Power Meter	150.00
EUI-89	FC/UPC Source Adapter	95.00
EUI-90	ST/UPC Source Adapter	95.00
EUI-91	SC/UPC Source Adapter	95.00

*Call for other adapter styles or APC configurations

PART #	DESCRIPTION	PRICE
AXS-110-23B-EI	AXS Singlemode 1310/1550nm OTDR	$5,995.00
AXS-110-12CD-EI	AXS Multimode 850/1300nm OTDR	6,895.00
AXS-110-12CD-23B-EI	AXS Quad 850/1300/1310/1550nm OTDR	9,795.00
AXS-110-000-04B-EI	AXS Filtered 1625nm 35dB second port for live fiber testing	7,995.00
AXS-110-023B-04B-EI	AXS 1310/1550/1625nm 37/35/37dB second port for live fiber testing	8,250.00
AXS-110-236-EI	AXS Tri-Wave 1310/1490/1550nm 37/35/33 dB	9,395.00

/Anritsu
Discover What's Possible™

FIS IS THE NATION'S LARGEST ANRITSU STOCKING DISTRIBUTOR

ANRITSU MT9083A/B/C FEATURES

- High Performance: 0.8m Event Dead Zone, up to 45 dB Dynamic Range
- Unmatched FTTx/PON Support for Splitters up to 1x128
- Ultra-fast Dynamic Range Acquisition to Reduce Testing Time
- Excellent 8+ Hour Battery Life
- The Benchmark for Reliability in Test Equipment
- True all-in-one Test Set with PM, LS, VFL and Connector Inspection Probe

MT9083A

NO EXPORT

NOW INCLUDES A FULL 3 YEAR WARRANTY AND NETWORK SOFTWARE WITH THE PURCHASE OF MT9083

The ACCESS Master MT9083 Series is designed to be the perfect tool for any application - from 50ft fiber drops to 60 mile backbone cables, single mode to multimode. All models feature 0.8m dead zones (typ), standard light source, connector inspection microscope support, USB data storage, long battery life and an enhanced indoor/outdoor display for direct sunlight viewing.

Each Unit Includes: Enhanced display, rugged display cover and softcase. Deluxe kits also include PM, VFL and NETWORKS PC software. Please specify adapter.

MT9083A

PART #	DESCRIPTION	PRICE
Z1254A	SM 38/36.5dB 1310/1550nm Basic Kit	$8,375.00
Z1368A	MM 28/27dB 850/1300nm Basic Kit	9,575.00
Z1094A	MM/SM 28/27/38/36.5dB 850/1300/1310/1550nm Basic Kit	11,975.00
Z1255A	SM 38/36.5dB 1310/1550nm Deluxe Kit	10,350.00
Z1370A	MM 28/27dB 850/1300nm Deluxe Kit	11,550.00
Z1371A	MM/SM 28/27/38/36.5dB 850/1300/1310/1550nm Deluxe Kit	13,950.00

MT9083B

PART #	DESCRIPTION	PRICE
Z1093B	SM 42/41dB 1310/1550nm Basic Kit	$10,175.00
Z1094B	MM/SM 29/28/42/41dB 850/1300/1310/1550nm Basic Kit	12,475.00
Z1369B	SM 42/41dB 1310/1550nm Deluxe Kit	12,150.00
Z1371B	MM/SM 29/28/42/41dB 850/1300/1310/1550nm Deluxe Kit	13,950.00

MT9083C

PART #	DESCRIPTION	PRICE
Z1093C	SM 45/45dB 1310/1550nm Basic Kit	$11,175.00
Z1369C	SM 45/45dB 1310/1550nm Deluxe Kit	13,150.00

ADAPTERS

PART #	DESCRIPTION	PRICE
J0617B	Anritsu Replacment FC Adapter for MT9083	$95.00
J0618D	Anritsu Replacment ST Adapter for MT9083	95.00
J0619B	Anritsu Replacment SC Adapter for MT9083	95.00
J1270	Anritsu Replacment LC Adapter for MT9083	159.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
MT9083A-002	Visual Fault Locator (VFL) Option	$550.00
MT9083A-007	Sm/MM Optical Power Meter (UPC/APC, +6 to -67 dBm)	750.00
B0582A	Soft Carry Case for MT9083A/B/C	180.00
B0583A	Hard Transit Case for MT9083A/B/C (suitcase style)	330.00
J1295	Cigarette Lighter Power Cord	50.00
G02938	Video inspection prob w/ USB connector (incl. FC/ST/SC/2.5mm/1.25mm tips)	1,895.00

ANRITSU CMA5000A

A powerful Windows-based unit, with large 10.4" color display, 40GB hard drive, touch screen and hard key user interfaces has several optics options to cover any testing needs from single-mode to multimode, from 24 to 50dB. Includes Windows® XP Pro Desktop and built-in DVD/CD-RW drive. Additional OTDR packages available.

FEATURES

- Modular, Multi-layer Test & Measurement Platform
- 10.4" LCD touch screen
- Full Range of Modules: OTDR, PMD, CD, Ethernet, SONET, OSA
- Dedicated Testing Modes Simplify OTDR Operation

NO EXPORT

CMA5000A

Medium Bay   Small Bay

Test Equipment

ANRITSU MT9090 HANDHELD NETWORK MASTER

µOTDR MODULE - MU909014B

When configured with a µOTDR module, the Network Master MT9090A creates a new class of test instruments. Its performance rivals traditional OTDRs that are four times the size and more than double the price. It features 5 cm resolution for accurate mapping of events, dead zones of less than 1 meter (3 feet) and a dynamic range of up to 37dB – enough to test over 150km (90+ miles) or PON-based FTTX networks featuring up to a 1x64 split. The MT9090A µOTDR also takes portability to a new level by being the first handheld OTDR that truly fits in the palm of your hand

PART #	DESCRIPTION	PRICE
Z1489A	MT9090A Mainframe, 1310/1550 (37/36dB) OTDR, VFL	$6,030.00
Z1490A	MT9090A Mainframe, 1310/1550 (32/31dB) OTDR, VFL	5,530.00

MT9090A

10/100/1000MB ETHERNET MODULE - MU909060A

When outfitted with the Gigabit Ethernet module, the Anritsu Network Master is a comprehensive solution for Gigabit Ethernet testing and for installation and troubleshooting Ethernet communication lines.

PART #	DESCRIPTION	PRICE
Z1379A	Gigabit Ethernet (1) RJ-45, SFP Slot with MU909060A1 Module	$4,670.00
Z1381A	Gigabit Ethernet (1) RJ-45, SFP Slot, RFC 2544 Test Option, with MU909060A1	6,736.00
Z1380A	MT9090A Mainframe, 10/100/1000MB Ethernet Module, 2-SFP Slots 4	980.00
G0246A	1000 Mbps SX SFP, 850nm (MM), with LC	288.00
G0241A	1000 Mbps LX SFP, 1310nm (SM) with LC	387.00
G0242A	1000 Mbps ZX SFP, 1550nm (SM) with LC	1,571.00
G0243A	100 Mbps FX SFP, 1300nm (MM) with LC	98.00
G0243A 1	100 Mbps LX SFP, 1310nm (SM) with LC	160.00

Main Frame

Z1383A

OPTICAL FAULT LOCATOR MODULE - MU909011A

When configured with the Optical Fault Locator module, the MT9090A becomes the perfect tool for evaluating central office, FTTx, intra-building and wireless backhaul optical cables. With less than 1m dead zones, an exclusive integrated launch cable, full trace view and complete event table analysis, the MT9090A fault locator has all the right features.

PART #	DESCRIPTION	PRICE
Z1383A	7dB,1550nm, UPC with MU909011A Module	$4,030.00
Z1385A	7dB,1550nm, VFL, Networks Software, UPC with MU909011A1 Module	5,425.00

Network Master Module

OPTICAL CHANNEL ANALYZER MODULE - MU909020A

The new MU909020A Optical Channel Analyzer module is a field modular device designed to measure and monitor power and wavelength over the 18 CWDM channels. It is a cost-effective alternative to more complex OSA for the emerging CWDM market, providing fast and reliable measurements in every environment.

PART #	DESCRIPTION	PRICE
MT9090A	Mainframe	$1,630.00
MU909020A-50	Optical Channel Analyzer with UPC optical connector	7,500.00
MU909020A-60	Optical Channel Analyzer with UPC optical connector	7,500.00

MT9090 ACCESSORIES

PART #	DESCRIPTION	PRICE
J0617B	Anritsu Replacment FC Adapter	$95.00
J0618D	Anritsu Replacment ST Adapter	95.00
J0619B	Anritsu Replacment SC Adapter	95.00
J1270	Anritsu Replacment LC Adapter	159.00
B0600A	Hard Case for MT9090	300.00
G0203A	AC Adapter/Charger	85.00
G0202A	NiMH Battery Pack	57.00

CMA5000A MAINFRAMES (MODULAR UNIT)

PART #	DESCRIPTION	PRICE
5000A-150-DC	Small Bay - 2 Module Capacity	$6,875.00
5000A-250-DC	Medium Bay - 4 Module Capacity	7,375.00

MULTIMODE MODULES - (Specify Adapter Type)

PART #	DESCRIPTION	PRICE
5266-000-OTDR	Multimode 24/26dB 850/1300nm	$6,975.00
5266-210-OTDR	Multimode 24/26dB 850/1300nm PM & LS	8,075.00
5266-211-OTDR	Multimode 24/26dB 850/1300nm PM, LS & VFL	8,475.00

SINGLEMODE MODULES - (Specify Adapter Type)

PART #	DESCRIPTION	PRICE
5225-000-OTDR	Singlemode 37/36dB 1310/1550nm	$7,175.00
5225-210-OTDR	Singlemode 37/36dB 1310/1550nm PM & LS	8,275.00
5225-211-OTDR	Singlemode 37/36dB 1310/1550nm PM, LS & VFL	8,675.00
5235-000-OTDR	Singlemode 1310/1550nm	9,175.00
5235-210-OTDR	Singlemode 40dB 1310/1550nm PM & LS	10,275.00
5235-211-OTDR	Singlemode 40dB 1310/1550nm PM, LS & VFL	10,675.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
NETWORKS	Emulation Software ($695.00 w/purchase of unit)	$995.00
5000A-HCase-DLX	Deluxe SBA/MBA Hard Case w/ module storage, CMA5000A	1,200.00
5000A-SCase	CMA500a SBA & MBA Softcase	410.00
5000A-SBATOTE	CMA5000a SBA Softcase	200.00
USB-KEYBD-US	USB keyboard with trackball	540.00
5000A-AC	AC Adapter	330.00
CORD-C5-XX	Power cable (xx: cable connector type)	50.00

M200

NOYES M200 OTDR

The M200 offers unmatched OTDR capabilities in a handheld package weighing less than 1 kg (2 lb). Multimode, Singlemode, and 'QUAD' wavelength models are offered. With short dead zone and intermediate range specifications, the M200 is ideal for Tier 2 testing of premises (building and campus) networks or certification and troubleshooting of FTTx PON networks. And its bright, transflective display makes it suitable for both indoor and outdoor operation.

The M200 is based on a new hardware/software platform that supports automatic and manual setup, precision event analysis, dual-wavelength testing, rich file naming and folder setup, internal and removable media data storage, and USB connectivity. Test ports are equipped with tool-free adapters, which can be changed in seconds. A custom-designed polycarbonate case and shock-absorbing boot make it our most rugged OTDR ever.

Supplied Accessories

APPLICATIONS
- Tier 2 testing of premises networks
- FTTx PON certification and troubleshooting
- Fast fault location
- Splice verification
- Network documentation
- ST, SC, FC Adapter Included

Each Unit Includes: A rugged, soft-sided carry case with shoulder strap, 110/220v AC power adapter with country-specific power cord, user guide, and various adapters.

PART #	DESCRIPTION	PRICE
M200-22	Dual Wavelength - Multimode 850/1300nm (Adapters - 1 SC, 1 FC)	$6,295.00
M200-20	Dual Wavelength - Singlemode 1310/1550nm (Adapters - 1 SC, 1 FC)	5,995.00
M200-25	Quad Wavelength – MM/SM 850/1300/1310/1550nm (Adapters -1 ST, 2 SC, 1 FC)	8,995.00

ACCESSORIES
PART #	DESCRIPTION	PRICE
1400-01-0075PZ	Hard Case for M200	$250.00

FEATURES
- Dynamic Range - 22dB (MM), 26dB (SM)
- 1.5 Meter Event Dead Zone (Typical)
- Integrated VFL (650nm)
- Li-Ion battery (6 hour life)
- Transflective (indoor/outdoor) Touchscreen Display
- USB Flash and Host Ports
- Compact Flash ™ Memory Card
- ST, SC, FC Adapter

NOYES M700

FEATURES
- Dynamic Rangeup to 40dB
- Integrated OPM and VFL (650nm)
- Full Auto, Expert, and Real-Time OTDR Test Modes
- Pass/Fail Event and Link Thresholds Settings
- 6.5-inch Transflective (indoor/outdoor) Touch Screen Display
- Tool-free, Switchable Test Port Adapters
- Rechargeable Li-Ion battery (> 8 hours) or AC power
- USB Host and Function Ports
- Internal (1,000s test results) and USB Storage
- Windows® Compatible Software

M700

Molded Side Bumpers for Impact Protection

New User Interface

NOYES OFL280-10x FlexTester OTDR

The NOYES OFL280 FlexTester family offers an unmatched combination of fiber optic test functions, ease-of-use, portability, and value. All OFL280 FlexTester models include an integrated single-mode 1310/1550nm OTDR with PON-optimized and standard test modes, optical power meter, 1310/1550nm laser source, and visual fault locator.

For many users the two-wavelength OFL280-100 will provide the best balance of functionality and value. Testing at 1310 and 1550nm is normally sufficient to certify point-to-point or FTTx PON fibers and allows the detection of macro bends. The three- wavelength OFL280-101 and OFL280-102 models add 1625nm or 1490nm respectively. Testing at 1625nm allows testing of the L band. Testing at 1490nm is required by some network operators to certify FTTx PONs. The filtered, three-wavelength OFL280-103 can certify dark fibers at 1310/1550nm, fault-locate live FTTx PON fibers at 1625nm, and measure FTTx power levels at 1490 and 1550nm, all from a single test port.

Supplied Accessories

APPLICATIONS
- Construction testing of FTTx PONs and point-to-point metro and access networks
- High-resolution fault-location of dark or live FTTx fibers
- Splice and connection verification (loss and reflectance)
- Optical power and loss measurement with time-saving Wave ID

Each Unit Includes: A carry case, (1) SC and (1) FC adapter for the OTDR/OLS port, (1) 2.5 mm universal adapter for the OPM port, (1) 2.5mm universal adapter for the VFL port, One-Click Cleaner SC/ST/FC (2.5mm), USB cable (connects with Type A USB port on your PC), and AC power adapter with a country-specific power cord. Specify the connector ferrule finish (UPC or APC) at order entry time.

OFL280

PART #	DESCRIPTION	PRICE
OFL280100	1310/1550nm OTDR, OLS, OPM, VFL for out-of-service point-to-point and FTTx PON testing 34/32dB	$4,595.00
OFL280102	1310/1490/1550nm OTDR, OLS, OPM and VFL 34/32/32dB	5,695.00
OFL280103UENG	1310/1550/1625nm OTDR, OLS, OPM and VFL with ServiceSafe™ live fiber detection, 1625nm live PON OTDR, and integrated PON Power Meter 34/32/30dB	6,995.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
2900-50-0002MR	FC adapter, OTDR/OLS port	$50.00
2900-50-0003MR	SC adapter, OTDR/OLS port	60.00
2900-50-0004MR	ST adapter, OTDR/OLS port	50.00
2900-50-0006MR	LC adapter, OTDR/OLS port	75.00
2900-52-0001MR	FC adapter, OPM port	56.00
2900-52-0002MR	SC adapter, OPM port	50.00
2900-52-0003MR	ST adapter, OPM port	56.00
2900-52-0004MR	LC adapter, OPM port	50.00
2900-52-0005MR	2.5 mm adapter, OPM port	56.00
2900-52-0006MR	1.25 mm adapter, OPM port	50.00
2900-53-0001MR	2.5 mm adapter, VFL port	50.00
2900-53-0002MR	1.25 mm adapter, VFL port	50.00
8800-00-0072PR	Dust cap for UCI outputs	5.00
1400-01-0045	Soft carry case	50.00

FEATURES
- Rugged, hand-held and light weight (0.8 kg / 1.8 lb)
- 0.8 m event dead zone, 3.5 m attenuation dead zone
- 34 dB dynamic range
- Fast Real Time OTDR mode
- Internal storage (>1000 OTDR traces in .SOR format)
- High-contrast display is clear and bright in any lighting
- Transfer test results to a PC via USB
- 10-hour operation, fast charge, Li-Ion battery

The NOYES M700 from AFL Telecommunications is a compact, full-featured OTDR with an integrated Visual Fault Locator (VFL), an Optical Power Meter (OPM) capable of displaying up to three wavelengths simultaneously, and a large transflective touch screen display suitable for both indoor and outdoor operation. The M700 is offered in four models: 1310/1550nm singlemode OTDR, 1310/1550/1625nm singlemode OTDR, 850/1300/1310/1550nm QUAD OTDR, and 850/1300/1310/1550nm Long Range QUAD OTDR.

Each Unit Includes: OTDR, AC Power Adapter, USB Flash Drive, PC Trace Analysis Software, (1) ST, (1) SC, (1) FC Adapter, Softcase and Cleaning Accessories.

PART #	DESCRIPTION	PRICE
M700-20U-01	Dual Wavelength, Singlemode, 1310/1550nm 40/38dB	$7,800.00
M700-21U-01	Tri Wavelength, SM 1310/1550/1625nm 40/38/38dB	10,800.00
M700-24U-01	QUAD Wavelength, MM/SM, 850/1300/1310/1550nm (Long Range) 24/24/39/37dB	12,995.00
M700-25U-01	QUAD Wavelength, MM/SM, 850/1300/1310/1550nm 22/26/26dB	10,250.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
M700-H1	Hard case w/ One-Clicks & Cletop	$795.00
M700-H9	Hard case w/ OLS4, OFS300-200, Fiber Rings, Jumpers, One-Clicks & Cletop	4,495.00

NEW

FLUKE networks.

DTX COMPACT CABLE TESTER & OTDR

Fluke Networks Compact OTDR module is the latest enhancement to the DTX CableAnalyzer. In addition to performing copper certification and diagnostics, your team can become fiber test experts when you decide to grow your business and turn your cable tester into an OTDR. This full featured, compact OTDR module snaps onto a DTX CableAnalyzer and provides unmatched ease of use for premises fiber testing. Choose a kit that includes a DTX mainframe and smart remote, options for copper certification, optical loss/length capability, or order a module and software that can be installed on a your own DTX CableAnalyzer.

NO EXPORT

PART #	DESCRIPTION	PRICE
DTX-1800-M-120	DTX-1800 Kit w/ Multimode Fiber Modules	$14,000.00
DTX-1800-MS-120	DTX-1800 Kit w/ MM and SM Fiber Modules	20,600.00
DTX-QUAD-OTDR-120	DTX QUAD OTDR US	11,425.00

OPTIONS

PART #	DESCRIPTION	PRICE
DTX-OTDR-QMOD	DTX Quad OTDR MODULE	$9,200
DTX-OTDR/LL-KIT	DTX Quad OTDR & LL KIT	19,900.00

FEATURES

- Expand installation revenue without expanding staff
- Shorten the technicians' learning curve for fiber testing
- Perform Basic (Tier 1) and Extended (Tier 2) fiber certification with a single tool
- Accelerate troubleshooting with a powerful, single-ended OTDR
- Deliver integrated copper and fiber reports using LinkWare™ Results Management Software

NEW

JDSU

T-BERD®/MTS-2000

The JDSU T-BERD/MTS-2000 is a handheld multi-test platform that provides field technicians with a single handheld unit to install, turn-up and maintain these networks to the highest standards.

Test capabilities include a range of OTDR modules for multimode and single-mode testing, as well as a range of FiberCompleteTM modules for automated Insertion Loss/ Optical Return Loss (IL/ORL), and fault finding. Both OTDR and FiberComplete modules are passive optical network (PON) optimized. The unit is also ready for connector end face pass/fail analysis to IEC standards with a digital analysis microscope.

The PON power meter and CWDM-OSA modules also enable turn-up and trouble-shooting of PON and coarse wavelength division multiplexing (CWDM) networks.

NO EXPORT

APPLICATIONS

- Tier 2 testing of premises networks
- FTTx PON certification and troubleshooting
- Fast fault location
- Splice verification
- Network documentation
- ST, SC, FC Adapter Included

FEATURES

- Large 5-inch touch screen display
- Field-installable modules
- Wide range of OTDR modules
- Automated fiber inspection and IEC pass/fail analysis
- Optional built-in optical power meter, visual fault locator (VFL), and optical talk set
- Lithium Polymer (LiPo) battery
- Flexible connectivity with Ethernet, USB, Bluetooth and WiFi capabilities

PART #	DESCRIPTION	PRICE
TB2-DIS-2WLM	T-BERD 2000 1310/1550nm LM OTDR w/ CW LS & PM 34/32 dB	$5,240.00
TB2-DIS-MM	T-BERD 2000 850/1300nm MM OTDR PACKAGE 26/24 dB	7,050.00
TB2-DIS-QUAD	T-BERD 2000 QUAD MM/SM OTDR PACKAGE 26/24/37/35 dB	8,950.00
TB2-FCOMP2-FF	T-BERD 2000 package 1310/1550nm FiberComplete 37/35 dB	6,900.00
TB2-FCOMP2-MA	T-BERD 2000 package 1310/1550nm FiberComplete w MA OTDR 37/35 dB	8,300.00

STYLE #1
Dimensions: 5" Diameter
Fiber Capacity:
Pulse Suppressor - 100 mtrs
(Pulse suppresser only)

STYLE #2
Dimensions: 5.5" x 7.5" x 1.5"
Fiber Capacity:
Pulse Suppressor: 1,500 mtrs
Test Box: 1 Event – 500 mtrs, 2 Events – 500 mtrs, 3 Events – 500 mtrs

STYLE #3
Dimensions: 7.3" x 9" x 2.5"
Fiber Capacity:
Pulse Suppressor: 2,500 mtrs
Test Box: 1 Event – 2,500 mtrs, 2 Events – 2,000 mtrs, 3 Events – 2,000 mtrs

STYLE #4
Dimensions: 14.2" x 11.4" x 6.5"
Fiber Capacity:
Pulse Suppressor: 9,000 mtrs
Test Box: 1 Event – 5,000 mtrs, 2 Events – 4,500 mtrs, 3 Events – 4,000 mtrs

Improved Design

STYLE #5
Dimensions: 22" x 17" x 8"
Fiber Capacity:
Pulse Suppressor - 20 km
Test Box: 1 Event – 40 km, 2 Events – 42.5 km, 3 Events – 45 km

STYLE #6
Dimensions: 22" x 17" x 12.7"
Fiber Capacity:
Pulse Suppressor: 100 km
Test Box: 1 Event – 90 km, 2 Events – 80 km, 3 Events – 25 km

STYLE #7
Dimensions: 8" x 6" x 4"
Fiber Capacity:
Pulse Suppressor: 750 mtr
Test Box: 1 Event – 750 mtr, 2 Events – 750 mtr, 3 Events – 750 mtr

STYLE #8
Dimensions: 4.25" L x 1.5" D
Fiber Capacity:
Pulse Suppressor: 1000m
ClearCurve® ZBL only (G657.B2)

DID YOU KNOW
Pulse Suppressors, also commonly referred to as OTDR Launch Boxes, Delay Lines or "Dummy Fibers," are used to occupy OTDR "Dead Zones" which enable accurate loss measurements on near-end and far-end connections of the fiber under test. Pulse Suppressors may also be used in an educational setting to simulate networks and during installation and troubleshooting. With the inclusion of additional loss points (fusion or mechanical splices, and/or connector events) the Pulse Suppressor becomes a Test Box for quick verification of your OTDR's calibrated accuracy. Generate an initial scan upon first use of your OTDR, then periodically check future scans against the reference to be sure the equipment is within calibrated range. FIS specializes in customization of Pulse Suppressors and Test Boxes!

BUILD YOUR CUSTOM PULSE OR TEST BOX
Use this chart to build your launch box you need to your exact specifications.
Part # Example: PS-2-3-200-0-0-B-7A/YA
Translates to: Pulse Suppressor in 5.5"x7.5"x1.5" box w/200 meters of 9/125µm fiber with 1 FC/APC & 1 SC/APC Bulkhead Interface

BOX PURPOSE	STYLE	FIBER #1 (CORE/CLAD)	FIBER LENGTH (IN METERS)	FIBER #2 (CORE/CLAD)	FIBER LENGTH (IN METERS)	INTERFACE	CONNECTOR FIBER 1 / FIBER 2
PS	2	3	200	0	0	B	7A/YA
PS= Pulse suppressor TB= Test Box Test box includes up to 3 events, must specify distance between events	1= #1 2= #2 3= #3 4= #4 5= #5 6= #6 7= #7 8= #8 Pigtails Only in boxes 1, 4, 5, 6, 7 & 8	1= 50/125µm - OM2 2= 62.5/125µm - OM1 3= 9/125µm - OS2 4= Other 8= BI 10G 50/125µm - OM3 9= ClearCurve® SM ZBL 10= BI 10G 50/125µm - OM4		0= none 1= 50/125µm - OM2 2= 62.5/125µm - OM1 3= 9/125µm - OS2 4= Other 8= BI 10G 50/125µm - OM3 9= ClearCurve® SM ZBL 10= BI 10G 50/125µm - OM4		B= Bulkhead P= Pigtails Pigtails Only in boxes 1, 4, 5, 6 & 7 R= Ruggedized Pigtails (Microduct)	7U= FC/UPC 7A= FC/APC 8 = ST/PC LU= LC/UPC LA= LC/APC MU= MU/UPC YU= SC/UPC YA= SC/APC O= Other

FIS LAUNCH BOX PART NUMBER/PRICE EXAMPLES   X - Indicates Connector Choice

PART #	DESCRIPTION	PRICE
PS-2-3-500-0-0-B-XX/XX	Launch Box Style #2, 500m 9/125µm SMF-28e+®, w/ 2 Bulkhead Adapters of Choice	$385.00
PS-3-3-1000-2-1000-B-XX/XX	Launch Box Style #3, 1000m 9/125µm Fiber and 1000m 62.5/125µm Fiber, Bulkhead Adapters of Choice	699.00
PS-4-3-1000-0-0-P-XX/XX	Launch Box Style #4, 1000m 9/125µm SMF-28e+®, 2 meter Pigtails w/Connector of Choice	620.00
PS-7-3-500-0-0-P-XX/XX	Launch Box Style #7, 500m 9/125µm SMF-28e+®, 2 meter Pigtails w/Connector of Choice	450.00
PS-7-1-100-0-0-P-XX/XX	Launch Box Style #7, 100m 50/125µm Fiber, 2 meter Pigtails w/Connector of Choice	350.00
PS-7-2-100-0-0-P-XX/XX	Launch Box Style #7, 100m 62.5/125µm Fiber, 2 meter Pigtails w/Connector of Choice	350.00
PS-1-1-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m 50/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends	185.00
PS-1-2-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m 62.5/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends	185.00
PS-1-3-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m Singlemode SMF28e+, 1.5m pigtails - SC/UPC connectors both ends	185.00
PS-7-1-500-0-0-P-YU/YU	Launch Box, Style #7, 500m 50/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends	399.00
PS-7-2-500-0-0-P-YU/YU	Launch Box, Style #7, 500m 62.5/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends	399.00
PS-7-3-500-0-0-P-YU/YU	Launch Box, Style #7, 500m Singlemode SMF28e+, 1.5m pigtails - SC/UPC connectors both ends	450.00

*When ordering Test Boxes, please specify type and location of up to 3 events. Each additional event $30.00
For Test Box Call for Pricing

FIS HAND HELD OPTICAL SPECTRUM ANALYZER

The FIS Hand Held Optical Spectrum Analyzers offer full featured analysis of DWDM and CWDM systems in a truly portable package. This OSA has a super-fast acquisition time of <1s per scan, and Pass/Fail feature with an easy to read color display. The OSX offers features such as Power Tilt for DWDM channel equalization and Gain Tilt to adjust EDFA gain flatness. The OSA will store up to 1,000 tests and is shipped with Windows™ compatible software for fast and easy reporting.

FEATURES:
- Easy Operation with Help Mode
- 50 or 100 GHz DWDM and 20nm CWDM Channel Spacing
- Fast with Less Than One Second Scan
- Over 80 Channels DWDM and 18 CWDM on the ITU Grid
- Bar Graph & Table Displays
- 4" Color Display
- Real Time operation
- Rugged Case with Impact Resistant Boot
- 8hr Battery Life
- Video Scope capability

Each Unit Includes: Universal Power Adapter, Interchangeable FC/SC Adapters, Windows® Compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION	PRICE
OSX-80C	C-Band Optical Spectrum Analyzer	$5,495.00
OSX-80L	L-Band Optical Spectrum Analyzer	5,495.00
OSX-20	CWDM Optical Channel Analyzer	5,495.00
F1-PVMP200	200x Microscope Video Probe with 2.5mm Tip	595.00

OSX-80C

EXFO FOT 5200 CWDM ANALYZER

Exfo's new FOT-5200 CWDM Analyzer is an innovative, low-cost alternative for the installation, maintenance, and repair of any CWDM network. With its ability to test up to 16 CWDM channels it is the optimal tool for installation, maintenance, and repair of any CWDM network. Being the fastest and smallest CWDM tester on the market the FOT-5200 will be a favorite tool of any technician.

FEATURES:
- Up to 16 CWDM channels
- Save and Download Data
- Broadband power-meter feature
- Bar graph, plus table of results
- Fastest and smallest CWDM test on the market

PART #	DESCRIPTION	PRICE
FOT-5200-16C-XX	CWDM Analyzer for 16 CWDM Wavelengths	$5,750.00

FOT-5200-16C

JDSU CHANNEL CHECKER

JDSU OCC-55 is an innovative selective power meter for CWDM applications. The OCC-55 is a low-cost alternative solution to optical spectrum analyzers. It scans CWDM systems and automatically records all channel key measurements including wavelength, frequency and related power level.

The JDSU SmartClass OCC-56 is a handheld, battery operated DWDM channel checker that is ideal for field service groups tasked with installation, maintenance, and upgrades of DWDM systems. The OCC-56 supports C-Band applications up to 102 channels and scans the DWDM system while automatically recording all the channels with the wavelength/frequency and related power level. Information can be displayed in a graphical spectrum format or in a table of results so that the user can easily check the performance of each and every channel while meeting ITU-T standards.

PART #	DESCRIPTION	PRICE
2277-40	OCC-55, Optical Channel Checker for CWDM applications	$6,251.70
2277-41	OCC-56C, Smart DWDM Channel Checker	7,264.95

2277-40

FIS OV-3 TEST SET

Loss Test Sets contain both a power meter and a light source in a single unit and are used to perform bi-directional end-to-end loss measurements. The FIS OV-3 Test Set is available configured in a number of flexible models to meet the installation and maintenance requirements of all optical networks. Include the CATV, VFL and Talk options to any model for additional functionality. The OV-3 is available in a power meter only version with the same great features.

FEATURES

- High Resolution Power Meter Calibrated at 850/1310/1490/1550nm
- 2mm Germanium Detector
- Backlit Display
- Available as Power Meter Only or Test Set
- Single or Dual Wavelength Light Source
- Stores up to 255 Tests
- Li-Ion Rechargeable Battery
- CATV, VFL & Talk Options
- One-Year Warranty
- Carry Case

Each Unit Includes: 110v/220v AC Charger, PC Software, 2.5mm and 1.25mm Universal Adapters, Soft Cary Case, RS232 Data Cable, (3 mtr Patchcord included with Units with Light Source Option).

PART #	DESCRIPTION	PRICE
OV3-PM	Deluxe Power Meter w/ RS232	$725.00
OV3-85	Test Set with 850nm Light Source	895.00
OV3-13	Test Set with 1300nm Light Source	995.00
OV3-8513	Test Set with 850/1300nm Light Source	1,195.00
OV3-31	Test Set with 1310nm Light Source	1,395.00
OV3-15	Test Set with 1550nm Light Source	1,695.00
OV3-1315	Test Set with 1310/1550nm Light Source	1,995.00
OV3-1415	Test Set with 1490/1550nm Light Source	2,295.00

Add "C" to part number for CATV version, (Singlemode Only) add $30.00 • Add "V" to part number for VFL Option add $190.00 • Add "T" to part number for TALK Option add $250.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
USBG232MM	RS232 to USB Converter	$30.00
OVM-9099HC	Hard Carry Case for Mini-OTDR and OV3 Hand Held Units	100.00

* Call for additional adapter styles/configurations

OV3-PM

EXFO 930 SERIES MAXTESTER

The FOT-930 MaxTester multifunction loss tester is a single tool solution for bi-directional loss and ORL testing in all networks. By combining multiple tools in one powerful platform, technician training time is reduced. User-configurable pass/fail thresholds and one button testing minimize the opportunity for error. Reliably inspect connector endfaces with the probe option. Stores up to 1,000 test reports that can be downloaded to the included software, to generate comprehensive custom reports.

FEATURES

- One Touch Automated Testing of Multiple Wavelengths for Loss & ORL in <10sec.
- Bi-directional
- Combines Loss, Power and ORL Measurement Capability
- Multimode and/or Singlemode Sources
- Fiber Length Testing
- Probe, VFL and Digital Talk Options
- Pass/fail Thresholds
- High Resolution Color Display

Each Unit Includes: AC charger, Li-Ion Batteries, Case and Shoulder Strap.

PART #	DESCRIPTION	PRICE
FOT93212DEIEUI91	EXFO MaxTester MM 62.5μm 850/1300nm,SM 1310/1550nm	$9,545.00
FOT93212DVFTEIEUI91	EXFO MaxTester MM 62.5μm, SM, VFL & Talkset, SC/UPC	10,950.00
FOT932400VFL00EIEUI91	EXFO Maxtester triple-wavelength 1310/1550/1625nm, VFL	9,470.00
FOT932VFLFP4SEIEUI91	EXFO MaxTester SM 1310/1550nm, VFL, 400X Probe, SC/UPC	10,840.00
FOT-932-00-xx-yy-zz	Multifunction Tester with 1310/1550nm source	6,870.00
FOT-932-12C-zz-yy-zz	Multifunction Tester with 850/1300/1310/1550nm source	9,545.00

Add an 'X' after the 932 to specify high power (+26dBm) detector

Replace letters in part numbers with items below to add additional features and select the adapter.

xx =	00	Without Talk or VFL	
	VFL	With Visual Fault Locator	add $475.00
	VFT	With Visual Fault Locator and Talk Set	add $2,965.00

yy=	00	Without Probe	
	FP4S	With 400x Video Inspection Probe, SC, FC and Universal Patchcord Tips	add $1,285.00
	FP4D	With 200x/400x Video Inspection Probe, SC, FC and Universal Patchcord Tips	add $1,730.00

zz=	EI-EUI-89	FC/UPC
	EI-EUI-90	ST/UPC
	EI-EUI-91	SC/UPC
	EA-EUI-89	FC/APC
	EA-EUI-91	SC/APC

Test Equipment

Rent it!

Made in the USA

www.fiberinstrumentsales.com

43

AFL

C860

Rent it!

C880

NOYES C860 CERTIFICATION TESTER

The NOYES C860 QUAD Certification and OTDR Test Kit from AFL Telecommunications includes one handheld C840 QUAD OLTS Tester and one C850 QUAD OTDR/OLTS with built-in auto test functionality. With this kit, technicians can troubleshoot and perform both Tier 1 and Tier 2 certification tests of Multimode and Singlemode fiber networks, store results and create professional test reports.

FEATURES
- OTDR dynamic range: MM-22dB, SM-26dB
- Integrated OPM, OLS, and VFL (650 nm)
- OLS Sources:
  - LED - 850/1300 nm
  - Laser - 1310/1550 nm
- Full Auto, Expert, Real-Time OTDR test modes
- Internal (1,000s tests) and USB storage
- Wave ID detect if used with AFL Wave ID series light sources

Each kit includes: One Handheld C840 QUAD Certification Tester, One Compact C850 QUAD OTDR/OLTS, USB Flash Drive, PC Trace Analysis Software, (2) AC Adapters, Switchable Test Ports Adapters, and Accessories.

PART #	DESCRIPTION	PRICE
C860-100-LP1-H2	(1) C840 Quad Tester & (1) Compact C850 Quad OTDR/OLTS SC-LC Kit	$16,995.00
C860-100-LP1-H5	(1) C840 Quad Tester & (1) Compact C850 Quad OTDR/OLTS SC-ST Kit	16,995.00

NOYES C880 CERTIFICATION TESTER

Combining two C840 Certification Testers, the NOYES C880 QUAD Certification Test Kit from AFL is designed for testing and troubleshooting both multimode and singlemode fiber links. Each tester includes an integrated Visual Fault Locator (VFL, 650nm), both singlemode (Laser 1310/1550nm) and multimode (LED 850/1300nm) Optical Light Sources (OLS), and an Optical Power Meter (OPM). Each tester may be used alone as a traditional power meter, light source or visual fault locator.

FEATURES
- Integrated OPM, OLS, and VFL (650 nm)
- Dual-wavelength certification Pass/Fail
- Bi-directional and single fiber testing
- Rechargeable Li-Ion battery or AC power
- Internal (1,000s test results) & USB storage
- Transflective (indoor/outdoor) touch screen display

Each Kit Includes: (2) C840s Testers, USB Flash drive, Software,(2) AC Adapters, Switchable Test Ports Adapters (SC,2.5mm,1.25mm),and Cleaning Accessories.

PART #	DESCRIPTION	PRICE
C880-100-LP1-S1	(2) NOYES C840 Quad Certification Testers SC-LC Kit	$10,500.00
C880-100-LP1-S2	(2) NOYES C840 Quad Certification Testers SC-ST Kit	10,500.00

FIBER INSTRUMENT SALES, INC.

Made in the USA

FIS FIBER OPTIC TALK SET

Fiber Instrument Sales' new full duplex Talk Set is a hands free unit designed for transmitting voice in both directions in a single fiber using two different wavelengths, 850/1300nm for the multimode unit and 1310/1550nm for singlemode. Includes adjustment for power and sensitivity. The built in VOX (sensitivity) circuit is meant to conserve battery power when the operator is not speaking. In addition to these features the unit also comes with a rechargeable 9V 540mAh battery and a charging port for in-unit charging. The Talk Set comes standard with ST or FC adapter ports. The loss budget for our Multimode set is 15dB; The Singlemode set is 20dB. Finally, each Talk Set comes equipped with a stereo headset with boom microphone, providing comfort for long-term use and high performance.

Each Set Includes: (2) Units, (2) Headphones with Microphone, 9V Battery

PART #	DESCRIPTION	PRICE
9061-1000	FIS Multimode Talk Set (pair) ST Adapter	$695.00 (pair)
9061-2000	FIS Multimode Talk Set (pair) FC Adapter	695.00 (pair)
9062-1000	FIS Singlemode Talk Set (pair) FC Adapter	1,495.00 (pair)
9062-2000	FIS Singlemode Talk Set (pair) ST Adapter	1,495.00 (pair)

9061-1000

FIS POWER METER

A power meter is the essential tool for measuring optical power within a fiber optic link. The FIS Power Meter is a solid performer, with 0.01dB resolution. Standard FIS units test from +5dBm to -65dBm, and FIS CATV units test from +23dBm to -45dBm.

FEATURES

- 2mm Germanium Photodiode
- Available with 1490nm Calibrated Wavelength
- 70-Hour Battery Life
- Low Battery Indicator
- CATV Version Available
- Built in Stand for Easy Viewing
- Ruggedized Units Available for Harsh Outdoor Environments

F1-8513HR

Each Unit Includes: Operating Manual, 9V Battery, 2.5mm & 1.25mm Adapters, and Carry Case

PART #	DESCRIPTION	PRICE
F1-8513HR	Hand Held Power Meter with 0.01dB Resolution	$325.00
F1-8513HRCATV	CATV Hand Held Power Meter with 0.01dB Resolution	355.00
F1-8513HR-4	0.01dB Resolution Power Meter with 1310/1490/1550nm	415.00
F1-8513HRCATV-4	CATV 0.01dB Resolution Power Meter with 1310/1490/1550nm	445.00
9080-0000	Ruggedized Power Meter with 2.5mm & 1.25mm Universal Adapter	549.00
9081-0000	FIS Test Set/Power Meter - 850/1300nm Light Source with ST Adapters and 2.5mm & 1.25mm PM Universal Adapter	1,225.00
9082-0000	FIS Test Set/Power Meter - 1310/1550nm Light Source with FC Adapters and 2.5mm & 1.25mm PM Universal Adapter	1,795.00
9083-0000	FIS Test Set/Power Meter - 1490/1550nm Light Source and Power Meter with FC Adapters and 2.5mm & 1.25mm PM Universal Adapter	2,045.00

POWER METER ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-8513Mm	2.5mm Universal Adapter (ST, FC, SC) (Polymer)	$39.00
F1-8513SC	SC Adapter	49.00
F1-8513ST	ST Adapter	49.00
F1-8513FC	FC Adapter	49.00
F1-8513SMA	SMA Adapter	49.00
F1-8513MTP	MTP Adapter	69.00
F1-8513MTJ	MT-RJ Adapter	59.00
F1-8513LCMMm	1.25mm Universal Adapter (Polymer)	39.00
1018-0000	Rugged Carry Case (See picture of Test Set Kit below)	39.00
F1-9103U	Universal 110/220v Power Supply	29.00

RUGGEDIZED POWER METER

FIS LIGHT SOURCE

The FIS Light Source is the perfect match for the FIS Power Meter. Singlemode units are equipped with lasers having a typical output power of -1.0dBm. Multimode units have LED's with a minimum output of -17dBm.

FEATURES

- Single or Dual Light Sources
- Continuous Wave (CW) or 2kHz Modulation
- Auto Shut Off & Low Battery Indicator
- Optional AC Power Supply
- 30-Hour Typical Battery Life
- Fixed Adapter for Optimal Performance
- Built in Stand for Easy Viewing
- Ruggedized Units Available for Harsh Outdoor Environments

9050-0000

Each Unit Includes: Operating Manual, 9V Battery, 2.5mm Adapter and Carry Case

PART #	DESCRIPTION	PRICE
9050-0000	850nm LED Light Source with ST Adapter	$295.00
9051-0000	1300nm LED Light Source with ST Adapter	450.00
9052-0000	Dual 850/1300nm LED Light Source with ST Adapter	525.00
9053-0000	1310nm Laser Light Source with FC Adapter	795.00
9054-0000	1550nm Laser Light Source with FC Adapter	795.00
9055-0000	Dual 1310/1550nm Laser Source with FC Adapter	995.00
9056-0000	1490/1550nm Laser Light Source with FC Adapter	1,355.00
9058-0000	Dual 1300nm LED/1310nm Laser Source (ST & FC)	1,095.00
9086-0000	Ruggedized Light Source 850/1300nm with ST Adapters	675.00
9087-0000	Ruggedized Light Source 1310/1550nm with FC Adapters	1,345.00
9088-0000	Ruggedized Light Source 1490/1550nm with FC Adapters	1,595.00
F1-9103U	Universal 110/220v Power Supply	29.00

RUGGEDIZED LIGHT SOURCE

FIS POWER METER & LIGHT SOURCE KIT

Purchase either our hand held or ruggedized series power meter and light source together and receiving a convenient carry case with reference cords and mating sleeves. Operating manuals and batteries included. Multimode sources standard with ST style interface, Singlemode sources standard with FC style interface. Power meters supplied with universal 2.5mm and 1.25mm adapter caps.

Custom Configurations Always Available! Please Call Today!

PART #	DESCRIPTION	PRICE
F1-813LR	Hand Held PM (0.01dB Resolution) 850/1300nm Dual LED LS (ST Interface)	$855.00
F1-1315LR	Hand Held PM (0.01dB Resolution) 1310/1550nm Dual Laser LS (FC Interface)	1,525.00
F1-1835LR	Hand Held PM (0.01 Res), 850/1300nm & 1310/1550nm Light Sources (FC/SM, ST/MM Interface)	2,080.00
F1-1835LRVFL	Hand Held PM (0.01 Res), 850/1300nm & 1310/1550nm Light Sources and VFL	2,205.00
F1-1345LR	Hand Held PM (0.01 Res) 1310nm 1490nm,1550nm Laser Light Source (FC Interface)	2,570.00
F1-813RG	Ruggedized PM (0.01 Res) 850/1300nm LED Light Source (ST Interface)	1,250.00
F1-1315RG	Ruggedized PM (0.01 Res) 1310/1550nm Laser Light Source (FC Interface)	1,895.00
F1-LRDLXCASE	Hard Case for 3 units (empty)	127.00

F1-813LRVFL

Test Equipment

EXFO

FIBERBASIX 50 SERIES

EXFO FIBERBASIX 50 SERIES POWER METER/LIGHT SOURCE

The EPM-50 Power Meter allows power measurements up to 26 dBm with battery autonomy of over 300 hours. It comes with a specific high power configuration for CATV and Telco markets. The ELS-50 Light Source offers the power stability and reliability necessary to perform loss measurement in Telco, CATV and FTTH applications using dual and triple wavelengths. Additional kit available.

Each Unit Includes: Soft pouch, PMA-22 FC connector adapter, LSA-89 FC connector adapter, quick reference sticker in five languages, Certificate of Calibration, Certificate of Compliance, and three AA batteries.
Other Adapters Available.

PART #	DESCRIPTION	PRICE
ELS5012CRBLSA89	Dual MM 850/1300nm LS with Rubber Boot, FC Adapter	$585.00
ELS5023BLRBLSA89	Dual SM 1310/1550nm LS with Rubber Boot, FC Adapter	1,025.00
EPM53RBPMA54	Power Meter w/ InGaAs Detector, Rubber Boot, SC Adapter	335.00
EPM53XRBPMA54	Power Meter w/ High Power In GaAs Detector, SC adapter	380.00
FBK-53	Contractor Kit 850/1300/1310/1550nm LS, InGaAs PM, Carry Case	1,645.00

Rent it!

FIBERBASIX 500 SERIES

EXFO FIBERBASIX 500 SERIES LOSS TEST SETS

EXFO's FiberBasix 500 Series Optical Loss Test Sets feature semi-automatic testing, wavelength switching and Pass/Fail threshold settings. This test set has a memory capacity of 1,000 data items and data transfer to PC via USB connection. The 500 Series light sources feature tone generation for use with the EPM500 for remote power referencing. The FiberBasix gives you error-free testing with automatic wavelength recognition with no need to zero-set.

Each Unit Includes: (1) PM, (1) LS, Carrying Case, One Test Jumper or Two Test Jumpers for FBK-506, 507, 508 Kits and Interchangeable Connector Adapter on the Power Meter and on the Source.

PART #	DESCRIPTION	PRICE
FBK-503-EI-EUI-XX	Contractor Kit 850/1300/1310/1550nm LS, Carry Case (No Memory)	$2,945.00
FBK-504-EI-EUI-XX	Premium LAN Test Kit 850/1300nm LS, Carry Case	2,830.00
FBK-505-EI-EUI-XX	Premium OSP Test Kit 1310/1550nm LS, Carry Case	3,100.00
FBK-506-EI-EUI-XX	Premium Contractor Kit 850/1300/1310/1550nm LS, Carry Case	3,541.00

Replace XX with 89=FC, 90=ST, 91=SC.

AXS-200/360

EXFO AXS 200/360 FIBER CERTIFICATION TEST SET

This test set with 40 calibrated power meter wavelengths automatically verifies user-inputted fiber lengths. Inspects connectors with the optional fiber inspection probe (FIP) and detects breaks with the optional visual fault locator (VFL). Editable user defined thresholds optimize the pass/fail results.

PART #	DESCRIPTION	PRICE
TK-AXS-360	One (1) AXS-200 SharpTESTER Modular Mainframe, One (1) AXS-360 Fiber Certification Module, One(1) FLS-600 Handheld Source	$1,795.00
SOURCE OPTIONS	DESCRIPTION	PRICE
B1-XX	FLS-600-12D, 850/300 nm LED 62.5um	$695.00
B2-XX	FLS-600-23BL, 1310/1550 nm laser 9/125	695.00
B3-XX	FLS-600-12D-23BL, 850/1300nm LED source 62.5/125µm, 1310/1550nm laser 9/125µm	2,095.00

EXFO PON POWER METER

This new power meter is truly optimized for EPON and GPON architectures. Pass/Warning/Fail indicators for easy assessment of power values. Simultaneous measurement and display of all PON signals – Voice, Data and Video. The most easy-to-use instrument of its kind: simply connect the fiber and read the results.
Includes: Quick Reference Guide, USB Cable, Software, User Guide on CD, Wrist Strap, and Protective Cover for Optical Ports

PART #	DESCRIPTION	PRICE
PPM-352C-YYY	PON Power Meter w/ pass through port	$1,645.00

Replace YYY with EI-EUI-89=FC, 90=ST, 91=SC universal adapters for Light Sources and Kits.

NOYES SMLP5-5 SM/MM LOSS TEST KIT FROM AFL

Essential tool for certifying singlemode and multimode fiber networks to industry standards. Included TRM™ PC Reporting Software is a powerful tool for analyzing test results, applying industry standards, and generation of comprehensive certification reports using supplied industry accepted templates.

NOYES SMLP5-5 test kit is ideally suited for testing singlemode and/or multimode fiber optic networks and cables. The OPM5-2D and OLS4 offer long battery life from common AA alkaline batteries with external AC adapter available as an option. The SMLP5-5 test kit is fully N.I.S.T. traceable.

OPM5-2D   **OLS4**

FEATURES

- Test single-mode and multimode networks
- Wave ID (auto identification & switching)
- TRM™ Reporting Software (Windows® compatible)
- Dual or Single Wave ID, CW, Tone
- File Management for over 600 fibers
- USB port for transfer of stored results
- 50µm and 62.5µm Fiber Mandrels Included
- Display readable in dim area or direct sunlight

SMLP5-5

Includes: (1) OLS4 Optical Light Source, (1) OPM5-2D Optical Power Meter, AA Batteries, Protective Rubber Boots, Adapter Cap, USB Cable, Windows® Compatible Software User's Guide, 50µm And 62.5µm Mandrels, and Carry Case

PART #	DESCRIPTION	PRICE
SMLP5-5	NOYES Quad Optical Loss Test Kit (specify connector style when ordering)	$2,995.00

Available Connector Adapters: FC, ST, SC, LC

FIS VISUAL FAULT LOCATOR

The FIS Visual Fault Locator is an essential tool for troubleshooting a fiber optic system. A 1mW packaged laser sends a 650nm visible red light down the length of the fiber. The escaping light allows easy identification of breaks or severe macro bends. Internal optics are used to optimize the unit's performance for either singlemode or multimode applications. Fiber end identification and continuity testing for long distances are also natural applications.

Each Unit Includes: Manual, (2) AA Batteries, and Carry Case.

PART #	DESCRIPTION	PRICE
OF-1000-UF	Visual Fault Locator with 2.5mm Universal Adapter (MM & SM)	$295.00
OF-1000U-LC	Visual Fault Locator with LC Adapter (MM & SM)	295.00
OF-1000U-FCA	Visual Fault Locator with FC/APC Adapter (SM)	395.00
OF-1000U-SCA	Visual Fault Locator with SC/APC Adapter (SM)	395.00
OF-1000U-MTRJ	Visual Fault Locator with MT-RJ Adapter (MM & SM)	495.00

Made In the USA

OF-1000-UF

WILCOM MT-RJ VISUAL FAULT LOCATOR

The Wilcom MT-RJ Visual Fault Locator is used for finding breaks and/or macro-bends in multimode optical fibers. The F6240 incorporates a fixed male MT-RJ duplex receptacle, and independently launches a bright visible red laser into channel A or channel B fiber for quick continuity testing.

PART #	DESCRIPTION	PRICE
F6240	MT-RJ Visual Fault Locator (Hand Held)	$895.00

Wilcom

F6240

FIS CONTINUITY TESTER

A Continuity Tester enables you to easily verify light throughout as the LED transmits red light down the fiber, providing visual identification at the fiber's far end. Operates with two "AA" size batteries (provided).
Recommended for Multimode Use Only.

Each Unit Includes: Tester and (2) AA Batteries

PART #	DESCRIPTION	PRICE
F1-5000U	Fiber Continuity Tester 2.5mm Universal (ST, FC & SC)	$29.95
F1-5000	Fiber Continuity Tester (ST)	29.95
F1-5000SMA	Fiber Continuity Tester (SMA)	29.95
F1-5000FC	Fiber Continuity Tester (FC)	29.95
F1-5000SC	Fiber Continuity Tester (SC)	29.95
F1-5000LC	Fiber Continuity Tester (LC)	29.95

F1-5000 SC

Test Equipment

Made in the USA

A

B   **C**   **D**   **E**

Fault Locators are a special class of light sources that emit a high intensity visible Red Laser into a patchcord or cable. This light can be used to both check the continuity of a fiber and identify the fiber's far end, or it can be used to visually identify the location of a fiber break. Most Fault Locators come optimized for single-mode fiber use; however they work equally as well with multimode fiber.

Fault locators are offered in "hand-held" and "pocket size" versions. Hand-held versions are offered in a range of connector bulkheads styles, from universals to specific connector types. Pocket Fault Locators usually have a universal ferrule adapter and offer a small size that easily fits into a belt or tool case.

	A	B	C	D	E
Manufacturer	fis	EXFO	FLUKE networks	Wilcom	AFL
Part Number	F1-9000 | F1-9000125	FLS-241-UNIV	VISIFAULT	F6230A	HILITE
Type	Pocket	Pocket	Pocket	Pocket	Pocket
Operating Wavelength	650nm	635nm	650nm	650nm	650nm
Distance	7km | 5km	5km	4km | 3km	8km	
Fiber Type	SM/MM	SM/MM	SM/MM	SM/MM	SM/MM
Battery Life/Type	30hrs (2AA)	50hrs(2AAA)	80hrs(2AA)	N/A(1AA)	4hrs(1AAA)
Optical Interface	2.5mm | 1.25mm Universal	2.5mm Universal	2.5mm Universal	2.5mm Universal	2.5mm Universal
Dimension	7.1" Long x 0.86"	6 7/8" x 1"	6.2" x 2.0" x 1.3"	6.2" x 0.63" x 2.36"	2.8" x 1.4" x 0.6"
Special Feature	Rugged Aluminum Housing	Weather Proof	Long Battery Life	Low Battery Indicator	Small Key Chain Size
Price	$139.95 | $159.95	$370.00	$309.00	$260.00	$279.00

VFL ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-9000AD	1.25mm Adapter (Compatable w/ PFL's using Universal 2.5mm Adapters)	$59.00
GP-1008	EXFO Adapter (convert 2.5mm head to 1.25mm) for FLS-241-UNIV	125.00

F1-9000AD

DID YOU KNOW
TOP 5 WAYS TO USE A VISUAL FAULT LOCATOR (VFL)
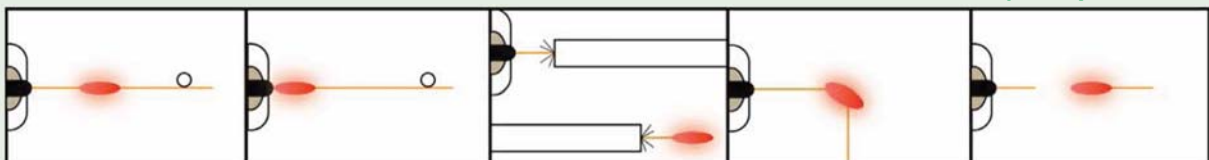
To Detect Fiber Breaks   Identify Defective Connectors   Performs Continuity Checks   Find Loss Inducing Bends   Optimize Fiber Splices

DID YOU KNOW

FIBER IDENTIFIERS

A Fiber Identifier allows you to see if a fiber is active without having to disconnect it from the network. They accomplish this by clamping onto a fiber mid-span and inducing a small macro bend. The Fiber Identifier can detect the small amount of light leaking through the macro bend to determine activity. Most units can also determine the direction of the traffic over the fiber link. Fiber Identifiers can also detect and identify specific modulated frequencies.

Fiber Identifiers are typically designed to work with 250µm coated, 900µm buffer, 2mm jacket and 3mm jacketed fibers. Ribbon Fiber versions are also available. Several higher end models are also capable of measuring the strength of the optical signal traveling down the fiber and displaying it on the unit.

TYPICAL APPLICATION
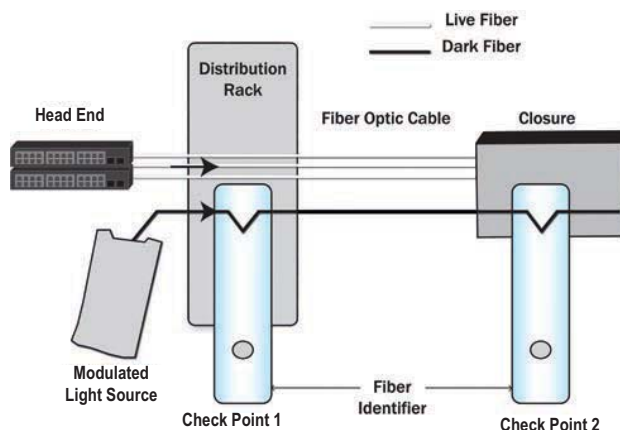
WILCOM FIBER IDENTIFIER

Wilcom's Optical Fiber Identifiers are rugged metal units with the best sensitivity detection on the market today. They operate by inducing a macrobend on the fiber, and can be used for singlemode and multimode applications. Certain Wilcom models allow Relative Core Power measurements to be displayed. The unit can also detect the presence of 2kHz, 1kHz or 270Hz modulated tones. The optical head accepts a 3mm, 250µm /Ribbon or 900µm fibers.

Each Unit Includes: 9V Alkaline Battery, Carry Case and Interchangeable Heads for 3mm, 900µm, 250µm Fibers.

PART #	DESCRIPTION	PRICE
F6121A	Fiber Identifier	$1,280.00
F6222	Fiber Identifier w/Core Power & Digital Display	1,600.00
F6222C	CATV Fiber Identifier	1,590.00
F6121R	Ribbon Fiber Identifier	1,782.00
044-197731	3mm Adapter Head	65.00
044-1996501	2mm Adapter Head	65.00
044-20715011	1.6mm Adapter Head	65.00

F6222

FITEL FIBER IDENTIFIER

When you are doing maintenance on a network that can't be shut down for testing, reach for the Fitel Fiber Identifier. This device places a macro bend in the fiber that enables you to identify transmission direction, fiber path and relative core power on live optical fibers. Universal fiber optic adapter head accepts coated, ribbon or jacketed fiber optic cables. LED display and audible tone indicator.

Each Unit Includes: Battery, Strap and Manual

PART #	DESCRIPTION	PRICE
F1-IDH	Fitel Lightfinder ID-H Fiber Identifier with Universal Head	$1,195.00

F1-IDH

EXFO LIVE FIBER IDENTIFIER & TONE GENERATOR

The EXFO Fiber Finder can identify traffic, direction and tone detection on both active and dark fibers. With less than 1dB of induced loss, a live fiber can quickly be located and the power measured while minimizing network access time and the possibility for errors. The TG-300 is a non-intrusive, non-disruptive tone generator. Because of the low 0.2dB typical loss, they can be used on live fibers. The Fiber Finder and Toner work on all wavelengths and fiber types. One headpiece works on 900µm, 1.6mm and 3mm jackets and tones of 270Hz, 1kHz and 2kHz. The TK-FF kit includes both the Fiber Finder and Toner along with a case, AC adapter and 4 AA batteries per unit.

PART #	DESCRIPTION	PRICE
LFD-300	Live Fiber Identifier	$2,995.00
TG-300	EXFO Fiber Toner	3,595.00
TK-FF	Fiber Identifier Kit – LFD-300 plus TG-300	5,995.00

LFD-300   **TG-300**

AFL OPTICAL FIBER IDENTIFIER

The AFL OFI 200D Optical Fiber Identifier is a low-cost, high-tech approach to non-invasive fiber optic signal detection. Using a low-insertion loss, macro-detection technique, it discriminates signals without disrupting service or overstressing fiber. By simply clamping an Optical Fiber Identifier onto a gently bent fiber, the unit will indicate if there is [No Signal], [Tone], or [Traffic] and identify signal direction. This is all done with no head swapping or adjustments for different types of fiber, 250µm, 900µm, 3mm jacketed cable and ribbon fiber.

PART #	DESCRIPTION	PRICE
OFI200D	Optical Fiber Identifier	$1,495.00
OFI400	Optical Fiber Identifier for use with 250µm, 900µm, ribbon, 2 mm and 3mm jacketed optical fibers	1,595.00
OFIFTTX	Active Out Detector for FTTx, BPON, GPON, EPON Networks	1,645.00

OFI200D

F1-VM400LCD

F1-9786
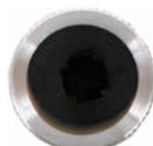
Best Value in the Industry

F1-MS200X

F1-VS200F2.5

F1-MAMTRJ   **F1-MA1.25**

OFS-300-200C

FIS VIDEO MICROSCOPE

The FIS Video Microscope is a natural choice for fast-paced production environments, where ease of use and fast, accurate inspections are a necessity. The microscope offers a high-resolution look at the end face of most standard connectors, through a choice of either 200x or 400x magnifications. The optics and internal components are designed to be rugged and reliable, with no user-serviceable parts.

Each Package comes with: (1) Video Microscope, (1) 12" LCD monitor, (1) 6' Video Cable, (1) 2.5mm Universal Adapter

PART #	DESCRIPTION	PRICE
F1-VM200LCD	200x Video System (110v)	$595.00
F1-VM400LCD	400x Video System (110v)	595.00
F1-VM200PLCD	200x Video System (220v)	695.00
F1-VM400PLCD	400x Video System (220v)	695.00
F1-VM200USB	200x, USB (No LCD Monitor included)	470.00
F1-VM400USB	400x, USB (No LCD Monitor included)	470.00

ACCESSORIES

Adapters are for use with the FIS Video Microscope only.

PART #	DESCRIPTION	PRICE
F1-VS25	Universal 2.5mm Adapter	$60.00
F1-VS12	Universal 1.25mm Adapter	60.00
F1-VSAPC25	Universal 2.5mm APC Adapter	60.00
F1-VSLC	LC Adapter	60.00
F1-VSSMA	SMA Adapter	60.00

FIS UNIVERSAL 100x MICROSCOPE

The FIS Universal Microscope is provided with an 2.5mm universal faceplate. Insert the ferrule into the microscope and inspect the end face with ease. This complete 100x microscope is perfect for multimode connectors and is easy to use.

PART #	DESCRIPTION	PRICE
F1-9786	Hand Held Universal Microscope (ST, FC & SC) 100x	$69.00
F1-9786LC	LC Duplex Adapter for F1-9786	59.95
F1-9786VF45	VF-45 Adapter for F1-9786	45.00

FIS MINI FIBER MICROSCOPE

Utilize this compact scope to inspect connector ferrule endfaces for dirt, debris or oils that may interfere with signal transmission. Scope has both Oblique and Coaxial white LED lighting.

Includes: Microscope,(2) AAA Batteries, 2.5mm adapter, 1.25 mm adapter

PART #	DESCRIPTION	PRICE
F1-MS200X	Compact 200x Microscope	$109.00

FIS 200x & 400x MICROSCOPE

These low cost, high quality microscopes are available in 200x or 400x magnification, and utilize white LED light to provide coaxial illumination of connector end-faces. Three "AAA" batteries provide more than 40 hours of use before battery replacement is required. Provided with a universal 2.5mm adapter, with other connector styles available. Dimensions: 8.76"L x 2.16"H

PART #	DESCRIPTION	PRICE
F1-VS200F2.5	200x Microscope with 2.5mm Universal Adapter	$99.00
F1-VS400F2.5	400x Microscope with 2.5mm Universal Adapter	105.00

ACCESSORIES

These adapters are specifically for use with the above VS - Series handheld microscopes.

PART #	DESCRIPTION	PRICE
F1-MA1.25	1.25mm Universal Handheld Microscope Adapter	$12.00
F1-MAMTRJ	MTRJ Handheld Microscope Adapter	21.50

NOYES FIBER OPTIC INSPECTION SCOPE

The NOYES OFS-300 with universal adapter (ST, FC, and SC) is a versatile instrument used to inspect fiber optic connectors. Recommended for both multimode and singlemode applications. FIS also offers an 8º scope adapter for inspecting angled connectors. Order tripod separately. Operates on 2 "AA" alkaline batteries. Call for additional adapters.

PART #	DESCRIPTION	PRICE
OFS-300-200C	200x Fiber Optic Scope with 2.5mm Universal Adapter	$399.00
VS-300	400x View Safe Inspection Scope 2.5mm Universal Adapter (NTSC video output)	795.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
8800-00-0218	FC/APC Scope Adapter	$75.00
8800-00-0219	2.5mm Universal Scope Adapter	50.00
8800-00-0220	SC/APC Scope Adapter	75.00
8800-00-0225	LC Simplex/Duplex Scope Adapter	90.00
8800-00-0236	LC Backplane 1.25mm Adapter, Thread-on Style	50.00
1400-01-0055	Soft Carry Case	40.00
OFS-1000-100	Hard Carry Case	68.00
2900100001	Tripod	13.50

FIS FIBER OPTIC INSPECTION MICROSCOPE

The FIS Video Microscope is ideal for inspecting fiber optic connector endfaces in the field. This package combines a top quality Video Monitor and Handheld Inspection Probe in one affordable package.

The probe comes with interchangeable tips that enable you to inspect both male connectors and female bulkhead adapters. A large 5.6" LCD screen displays endfaces at 200x to ensure that connectors are clean and free of defects.

MONITOR MODULE
- Large 5.6" TFT LCD display
- Angle-adjustable screen for optimal viewing
- Brightness and contrast dials
- Screen folds for easy portability

HANDHELD VIDEO INSPECTION PROBE
- Easy-focusing knob enables one hand operation
- Interchangeable Probe Tips for inspecting different connector styles
- USB module/software included for viewing and saving images on a PC

OTHER FEATURES
- Rechargeable Batteries provide over 4 hours continuous operation
- AC Power Adapter/Charger
- Aluminum Carry Case with Shoulder Strap
- 1 year limited warranty
- RoHS Compliant

F1-VPMKIT200

PART #	DESCRIPTION	PRICE
F1-VPMKIT200	FIS Hand Held Video Monitor & 200X Microscope Probe	$995.00
F1-VPMUSB	200X Probe USB Adapter, Software (No Monitor)	725.00

FIS PROBE ADAPTER TIPS

PART #	DESCRIPTION	PRICE	PART #	DESCRIPTION	PRICE
F1-VP25	2.5mm Ferrule/PC Male/Patchcord Inspection Tip	$65.00	F1-VPLC	LC/PC Bulkhead Inspection Tip	$65.00
F1-VP25APC	2.5mm Ferrule/APC Male/Patchcord Inspection Tip	90.00	F1-VPLX5APC	LX.5/APC Bulkhead Inspection Tip	150.00
F1-VP125	1.25mm Ferrule/PC Male/Patchcord Inspection Tip	65.00	F1-VPLX5	LX.5/PC Bulkhead Inspection Tip	150.00
F1-VP125APC	1.25mm Ferrule/APC Male/Patchcord Inspection Tip	90.00	F1-VPLEMO	Lemo/PC Bulkhead Inspection Tip	85.00
F1-VPMPM	MPO/MTP Ferrule Male/Patchcord Inspection Tip	225.00	F1-VPMPO	MPO/MTP/PC Bulkhead Inspection Tip	225.00

EXFO FIP-400 FIBER INSPECTION PROBES

Two ways to achieve clear, sharp images of termination dirt and damage are with the video probe and viewer or using the USB converter. Connect directly to a handheld 3.5 inch TFT screen or to one of EXFO's many handheld instruments including MaxTester, AXS110 and FTB 150/200/400 series OTDRs. Several adapter tips available for industry style connectors. Contact an FIS Sales Representative for additional EXFO offerings.

PART #	DESCRIPTION	PRICE
FIP-400-D-SINGLE	Video inspection probe 400X w/handheld display w/FC, SC, Univ. 2.5mm tip, power supply	$1,950.00
FIP-400-D-DUAL	Video inspection probe 200/400X w/handheld display w/FC, SC, Univ. 2.5mm tip, power supply	2,325.00
FIP-400-P-SINGLE	Video Inspection probe 400X only w/FC, SC, Univ. 2.5mm tip	1,285.00
FIP-400-P-DUAL	Video inspection probe 200/400X only w/FC, SC, Univ. 2.5mm tip	1,730.00
FIP-400-USB2-DUAL	Video Inspection probe 200/400X with USB converter PC software and FC/SC and Univ. 2.5mm tip – plastic carry case	1,895.00
FIPT-400-U12M	Universal patchcord tip 1.25mm ferrules	70.00
FIPT-400-U25M	Universal patchcord tip 2.5mm ferrules	70.00
FIPT-400-U25MA	Universal patchcord tip 2.5mm APC ferrules	110.00
FIPT-400-U2MmAC	Universal patchcord tip 1.25mm APC ferrules	110.00
FIPT-400-FC-SC	FC and SC tip for bulkhead adapter	70.00
FIPT-400-FC-SC-APC	FC/APC and SC/APC tip for bulkhead adapter	140.00
FIPT-400-LC	LC tip for bulkhead adapter	70.00
FIPT-400-LC-APC	LC/APC tip for bulkhead adapter	140.00
FPSA-PC	ConnectorMax Analysis Fiber Inspection Probe analysis software	495.00
FIP-400-USB2-SINGLE-FPSA	ConnectorMax PC Analysis Kit w/ 400X Video inspection probe and USB2 converter	1,845.00
FIP-400-USB2-DUAL-FPSA	ConnectorMax PC Analysis Kit w/ 200X/400X Video inspection probe and USB2 converter	2,245.00

FIT-S205-PRO

JDSU

HP2 SERIES

The HP2 Series is the latest system from JDSU that integrates the most essential fiber tools into a single system that cuts test time in half to achieve better network performance. The HP2, derived from the popular HD2 series, features a high resolution 3.5" display for inspecting fiber endfaces and a built-in optical power meter for quick, easy, and accurate field measurements.

The HP2 equips technicians to work smarter and faster with a tool that promotes best practices in an efficient workflow. Doing things right the first time protects the network investment by preventing costly mistakes that could occur later on.

HIGHLIGHTS

- Promotes best practices in fiber handling by combining inspection and testing into one device
- Integrated functions & features improve workflow by eliminating need to switch from one device to another
- Significantly reduce total inspection and test time for superior workflow efficiency
- Reduces the number of tools and accessories you carry and manage

APPLICATIONS

- Inspects and accurately tests and measures optical power in one device
- Quickly and easily inspects both the bulkhead and patch cords
- Measures optical power and attenuation (with JDSU optical light source)
- Dedicated for all singlemode and multimode applications
- Use with JDSU light source to detect modulation frequency and identify individual fibers

Includes: Fiber Essentials Tool Kit Dual-mag (200/400X) FBP Probe Microscope and tips, FIT-HP2-60-P4 inspection & test system with 400X PCM, FFL-050 visual fault locator, cleaning tools, utility carrier, carrying case.

PART #	DESCRIPTION	PRICE
FIT-S205-PRO	JDSU Fiber Essentials Tool Kit Dual-mag (200/400X) FBP Probe	$3,517.50

FBP-SM03

JDSU FBP SERIES

The FBP-SM03 features the industry-leading JDSU FBP Series Dual-Magnification 200/400x Probe Microscope and compact HD3 Display. Choose 350µm or 550µm horizontal field of view. The GripSwitch™ feature saves battery life by automatically shutting off the display when not in use. Includes built-in rechargeable NiMH battery, power supply/charger, four inspection tips (LC/PC, SC/PC, U12M, and U25M), and a carrying case.

Includes: Built-in rechargeable NiMH battery, power supply/charger, two bulkhead inspection tips (LC/PC, SC/PC), two patch cord adapters (1.25mm and 2.5mm), and a carrying case.

PART #	DESCRIPTION	PRICE
FBP-SM03	200/400X Probe & HD3 Display Kit	$1,800.00
FBP-SD101	200/400X Digital Probe Kit- USB P500 w/ Fiber Check Software (PC Required)	2,200.00

JDSU ADAPTER TIPS

PART #	DESCRIPTION	PRICE
FBPT-FC	Tip FC Bulkhead for FBP (C)	$70.00
FBPT-FC-APC	Tip FC-APC Bulkhead for FBP	158.00
FBPT-LC	Tip LC Bulkhead for FBP (D)	70.00
FBPT-SC	Tip SC Bulkhead for FBP (A)	50.00
FBPT-SC-APC	Tip SC-APC Bulkhead for FBP (B)	100.00
FBPT-ST	Tip ST Bulkhead for FBP (E)	70.00
FBPT-U12M	Tip Univ. 1.25mm Patch Cord for FBP	70.00
FBPT-U25M	Tip Univ. 2.5mm Patch Cord for FBP	70.00
FBPT-U25MA	Tip Univ. 2.5mm Patch Cord APC Polish for FBP	80.00
FMAE-CA1	Coupling Adapter Converts FMA Adapters To FME	10.00
FMA-FC-APC	Adapter FC-APC Male Threaded	325.00
FMA-FCPC	Adapter FC Male Threaded	180.00
FMA-LC	Adapter LC Male Threaded	70.00
FMA-SC	Adapter SC Male Threaded	140.00
FMA-SC-APC	Adapter SC-APC Male Threaded	375.00
FMA-ST	Adapter ST Male Threaded	160.00
FMA-U12	Adapter Universal 1.25mm Male Threaded	50.00
FMA-U25	Adapter Universal 2.5mm Male Threaded	40.00
FMA-UAPC	Adapter Universal 2.5mm APC Male Threaded	80.00

(A)

(B)

Adapter Tips

(C)

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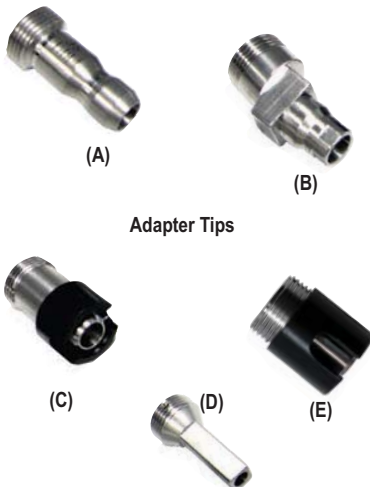
PREMIER BARE FIBER ADAPTER

Use this adapter for launching an OTDR or test set into an unconnectorized optical fiber for loss or length verification. Adapter can be cleaned easily if fiber breaks off during use. Specs: SC/UPC connector style plug-in, Typical insertion loss 1.0dB.

Kit Includes: Bare Fiber Adapter, Zipper Case, 122mtr SM Fiber Launch Reel with SC/UPC connectors, Cleaning Wire Kit and Instructions.

PART #	DESCRIPTION	PRICE
202073	Bare Fiber Adapter Launch Reel Kit	$299.00

202073

F1-81UNIV

FIS UNIVERSAL TESTING SLEEVE

Designed specifically for testing applications, the FIS Universal Testing Sleeve reduces labor time while testing fiber optic patchcords with standard for 2.5mm ferrules. Adapters for ST or FC reference cord are available.

PART #	DESCRIPTION	PRICE
F1-81UNIV	FIS ST to 2.5mm Universal Test Adapter	$15.95
F1-85UNIV	FIS FC to 2.5mm Universal Test Adapter	15.95

F1-85UNIV

FIS MULTIMODE MANDRELS

The use of mandrels in multimode insertion loss testing helps to ensure the proper launch condition into the fiber under test. By wrapping the fiber around the correct size mandrel, high order modes are stripped out and low order modes are spread out to achieve the desired launch conditions for testing. Each includes the mandrel and clip for holding the cable firmly in place during testing. Accepts jacket diameters from 1.6mm to 3.0mm and for use both OM1, OM2 cable.

PART #	DESCRIPTION	PRICE
F1-MM6250	62.5/125µm and 50/125µm Mandrel Kit	$29.00

F1-MM6250

FIS GOLD TIPPED PIGTAIL

FIS gold tipped pigtails are available for applications requiring a reference back reflection. Available in ST, FC, and SC style connectors. For singlemode applications the reflective quality of the gold provides high back reflection characteristics at 1310nm & 1550nm.

PART #	DESCRIPTION	PRICE
F1-1080-ST	1 Meter ST/UPC Pigtail with Gold Tipped Ferrule	$45.00
F1-1080-FC	1 Meter FC/UPC Pigtail with Gold Tipped Ferrule	45.00
F1-1080-SC	1 Meter SC/UPC Pigtail with Gold Tipped Ferrule	45.00
F1-1080-SCAPC	1 Meter SC/APC Pigtail with Gold Tipped Ferrule	50.00

F1-1080-ST

ANRITSU OTDR BARE FIBER PIGTAIL KIT

Save time by testing optical fibers without connectorizing. Easy-to-use, only a single drop of index matching oil is required. Strip, clean and cleave the fiber then insert into the unit until the end face meets the permanently mounted fiber. Specs: Choice of ST, SC or FC style connectors, Insertion Loss 0.6dB, Typical # of insertions – 2000.

Kit Includes: FiberConnect, Manual, Index Matching Oil, Maintenance Kit, Cleaning Brush, Magnetic Stand, Carry Case and Spare Pigtail.

PART #	DESCRIPTION	PRICE
FIBERCONNCT1-USC	FiberConnect Kit with SC/UPC pigtail	$625.00
FIBERCONNCT1-UST	FiberConnect Kit with ST/UPC pigtail	625.00
FIBERCONNCT1-UFC	FiberConnect Kit with FC/UPC pigtail	625.00

INFRARED DETECTION CARD

The Infrared Detection Card enables you to easily and safely detect the presence of invisible infrared light, which is potentially harmful to the eyes. Simply point the fiber optic cable, connector or other light source at the card for a visual indication of whether or not infrared light is present. Optimized for wavelengths between 850 - 1310nm.

PART #	DESCRIPTION	PRICE
F1-IDC	850 - 1310nm Infrared Card	$8.95

ALKALINE BATTERIES

PART #	DESCRIPTION	PRICE
7820357500	Premier 9-volt Battery	$1.75
7820457500	Premier "C" size Battery – 2 pack	1.60
7820487500	Premier "D" size Battery – 2 pack	2.25
7820497500	Premier "AA" size Battery – 4 pack	1.20
7820587500	Premier "AAA" size Battery – 4 pack	1.75

FIS EYE LOUPE SET

Set includes 2X, 3X, 5X, 7X and 10X magnifications, these eye loupes allow users to make preliminary inspection of connector mating surfaces for dirt and scratches. The five piece set is made of durable lightweight plastic which makes it an excellent value.

PART #	DESCRIPTION	PRICE
98722	Eye Loupe Set	$5.95

MAGNIFYING GLASSES

Protect your eyes and see fiber with ease with the dual purpose Magna-Focuser. These glasses magnify objects 2.5 times, providing a critical visual advantage which still allows user both hands free. Perfect for individuals who find it difficult to work with small parts.

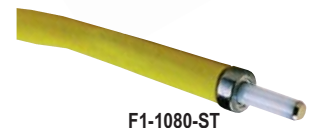| PART #	DESCRIPTION	PRICE
F1-1105	Magna Focuser	$18.95

ANRITSU SPECTRUM MASTER - MS2721B

Spectrum Master model MS2721B is an entirely new instrument for deploying, maintaining and trouble-shooting wireless base stations and Wi-Fi (802.11a,b and g) systems. The first fully-functional handheld spectrum analyzer designed to conduct highly accurate analysis on the new wave of wireless signals, including 802.11a, 3G, ultra-wideband, and WiMax. Weighing in at less than 7 pounds, it is equally at home on the engineering bench and in the field. Typical Applications: Field and interference analysis of 3G, 802.11a/b/g and other emerging signal types. Features: Measure capability for applications up to 7.1 GHz, Handheld, battery-operated design, built in pre-amplifier, Quick zoom-in, zoom-out display in 1-2-5 sequence, dedicated one-button measurements, store up to 2000 measurement test set-ups, Save up to 2000 measurement traces, RJ45 Ethernet 10/100 Base T and USB 2.0 interfaces, Handheld (12" x 8" x 3") 6.4 lbs.

Each Unit Includes: User's Guide, a Soft Carrying Case, an AC - DC Adapter, an Automotive Cigarette Lighter/12 Volt DC Adapter, a CD ROM containing Master Software Tools and USB driver, a USB A-Mini B cable, an Ethernet Cable, a Rechargeable Li-Ion Battery Pack, a 2 GB USB Flash drive, a Type-N Male to SMA Female Adapter, a Type-N Male to BNC Female Adapter.

PART #	DESCRIPTION	PRICE
MS2721B	Handheld Spectrum Analyzer, 9 kHz to 7.1 GHz	$14,114.00
2000-1032	Portable Antenna, 50 Ohm, SMA (m), 2.4 to 2.5 GHz	45.00
2000-1361	Antenna, 5725 to 5825 MHz, SMA male connector	75.00

* Call for other configurations

ANRITSU SITE MASTER - S361E

Site Master S361E, covering 2MHz to 6GHz is designed to accurately locate and identify RF cable feed-line and antenna system faults. Model is suited for any experience level user for installing, commissioning, troubleshooting and maintaining today's wireless systems. Features: Superior immunity to RF interference, locate long range problems with 517 data points, saves up to 25 measurement test set-ups, saves up to 200 measurement traces.

Each Unit Includes: Site Master User Guide, Soft Carrying Case, MST CD: Master Software Tools, User/Measurement Guides, Programming Manual, Troubleshooting Guides, Application Notes, Rechargeable Li-Ion Battery, AC-DC Adapter, Automotive Cigarette Lighter 12 VDC Adapter, USB A/5-pin Mini-B Cable.

PART #	DESCRIPTION	PRICE
S361E	Site Master, 2 MHz to 6 GHz Cable & Antenna Analyzer	$8,450.00
S361E-0010	Option 10, Bias Tee (For Model S361E) (Requires Option 21	465.00
S361E-0019	Option 19, High Accuracy Power Meter (Requires Sensor, sold separately) (For Model S361E)	570.00
S361E-0021	Option 21, 2-Port Transmission Measurement (For Model S361E)	1,440.00
S361E-0031	Option 31, GPS receiver (Requires Antenna P/N 2000-1528-R, sold separately) (For Model S361E)	465.00
S361E-0098	Option 98, Standard Calibration (For Model S361E)	360.00
S361E-0099	Option 99, Premium Calibration (For Model S361E)	445.00
S362E	Site Master, 2 MHz to 6 GHz Cable & Antenna Analyzer, 100 kHz to 6 GHz Spectrum Analyzer	15,450.00

LMR TESTER

The LMR Master is the ideal instrument for technicians and engineers testing the RF performance of P25 and NXDN radios in the VHF/UHF, 400 MHz, 700 MHz, and 800 MHz bands. It can be configured to be equipped with a cable & antenna analyzer, spectrum analyzer, interference analyzer, channel scanner, RSSI, AM/FM demodulation, RF power meter, GPS receiver, and P25 Tx Signal Analyzer, P25 RF measurements, P25 Talk-Out Coverage Measurements, and NXDN Signal Analyzer. The high performance 500 kHz to 1600 MHz cable & antenna analyzer can be used to sweep cables and antenna systems.

Each Unit Includes: Software Tools, Battery Pack, Soft Case, AC/DC Power Cables, Serial Cable and User's Guide.

PART #	DESCRIPTION	PRICE
S412E	S412E LMR Master, 500 kHz to 1600 MHz cable/antenna Analyzer, 500 kHz to 1600 MHz P25	$13,950.00
S412E-0006	Option 6, 6 GHz Coverage on Spectrum Analyzer	4,000.00
S412E-0010	Option 10, High Voltage Variable Bias Tee	650.00
S412E-0015	Option 15, Vector Voltmeter	695.00
S412E-0016	Option 16, 6 GHz Coverage on Vector Network Analyzer	4,000.00
S412E-0019	Option 19, High Accuracy Power Meter (Requires Sensor, sold separately)	670.00
S412E-0025	Option 25, Interference Analyzer (Option 31 is recommended)	1,805.00
S412E-0027	Option 27, Channel Scanner	1,855.00
S412E-0031	Option 31, GPS Built-in Receiver (Requires GPS Antenna P/N 2000-1528-R, sold separately)	465.00
S412E-0431	Option 431, Coverage Mapping (Requires Option 31)	2,500.00

FLUKE AIRCHECK WI-FI TESTER

Wi-Fi is a complex technology, but testing it doesn't have to be. The AirCheck Wi-Fi tester allows network professionals to quickly verify and troubleshoot 802.11 a/b/g/n networks. Designed specifically for dispatched troubleshooting, AirCheck simplifies wireless testing. Just a few clicks to the answers you need with streamlined, guided troubleshooting. An instant view to required test results including network availability, connectivity, utilization, security settings, rogue hunting, and interference detection.

Each Unit Includes: AirCheck tester with Lithium Ion Battery, USB Cable, Soft Case, Getting Started Guide, CD with AirCheck Manager Software and CD with AirCheck User Manual

PART #	DESCRIPTION	PRICE
AIRCHECK	Wi-Fi Tester	$1,995.00
ACK-LRPRO	AirCheck Frontline Troubleshooting Kit with LRPRO	2,995.00

MS2721B

NO EXPORT

Anritsu

Discover What's Possible™

S361E

NO EXPORT

Touch Screen

S412D

NO EXPORT

FLUKE networks

AIRCHECK

NO EXPORT

SPLICING

F1-9774
$325.00

Made In the USA

FIS PROTECTION SLEEVE OVEN

FIS' new splice protection sleeve oven is the perfect companion to any fusion splicer. By allowing for the external shrinking of fiber protection sleeves, it extends the life of a fusion splicer's battery allowing for more splices in the field and improving the efficiency of the splice process. Low profile allows for easy placement of either 40mm or 60mm fusion splice sleeves while providing a stable base for a variety of applications.

FSM-60S Fusion Splicer

AFL FSM-60S

The FSM-60S fusion splicer sets the standard for core alignment fusion splicing by incorporating a user-friendly interface with enhanced features to provide the most rugged and reliable fusion splicer in the market today. The new rugged construction adds improved reliability by resisting shock, dust, and rain, and can withstand a 30" drop test. The FSM-60S splices a fiber in 9 seconds and heats a 60mm splice sleeve in 30 seconds, for a total cycle time of only 39 seconds. New features such as automatic tube heater operation, user-selectable clamping method (sheath clamp or fiber holder system), automated monitor image orientation, and a battery charge capability during splicer operation provide the end user a tool they can count on.

FSM-60S Kit Includes: Splicer, Transit Case, AC Adapter, AC Cord, Sheath Clamp, USB Cable, Cooling Tray, Video Instruction Manual and Spare Electrodes (Battery not Included)

PART #	DESCRIPTION	PRICE
S014531	FSM-60S Kit	$15,000.00
S014532	FSM-60S Kit plus CT-30A Cleaver	15,900.00
S014562	FMS-60S Kit Plus CT-30A cleaver, BTR-08 Battery and DCC-14 Charge Cord	16,225.00

FEATURES
- Splice Time - 9 seconds (Typical)
- 30 Second Tube Heater
- Dual Monitor Position
- Automatic Arc Calibration
- Wind Protector Withstands 30mph Winds
- Long-Life Batteries
- Multiple Pre-Programmed Splice Modes
- Automatic Core to Core, Low-Loss Splicing
- Auto-Switching Monitor Position
- Perfect for use with Splice-On Connectors

ACCESSORIES

PART #	DESCRIPTION	PRICE
S013532	Electrodes for 60S (Pair)	$75.00
S014548	FH-60-250 250µm Fiber Holders (Pair)	240.50
S014549	FH-60-900 900µm Fiber Holders (Pair)	240.00
S014535	ADC-13 AC Adapter	370.00
S014540	BTR-08 Battery (160 splice/heater cycles)	296.00
S014541	DCC-14 Battery Charge Cord (for BTR-08)	37.00
S013552	DCC-12 Power Cord (Connects ADC-13 to Cigarette Socket)	92.50
S010532	ASW-02 Aerial Workstation	835.00
S014773	Portable Tripod Workstation Kit	495.00

FSM-60R Fusion Splicer

AFL FSM-60R

The FSM-60R Fusion Splicer offers unmatched versatility and reliability. The new ribbon splicer withstands a drop test of up to 30" and continues to splice, while the enhanced, robust features enable the 60R to resist shock, dust, and rain so that unfortunate environmental conditions do not negatively impact productivity. Equipped with a user-friendly interface and precision fixed V-groove, the 60R offers 2 to 12 fiber ribbon splicing, as well as single fiber splicing capability.

FSM-60R Kit Includes: Splicer, Transit Case, AC Adapter, AC Cord, FH-50-12 (pair) Fiber Holders, Video Instruction Manual, Spare Electrodes, Magnifier, USB Cable, and Cooling Tray

PART #	DESCRIPTION	PRICE
S014533	FSM-60R Kit	$16,500.00
S014534	FSM-60R Kit Plus CT-30 Cleaver and Hot Jacket Stripper	17,900.00
S014563	FSM60R Kit Plus Cleaver, Stripper, Battery, and Charger Cord	18,225.00

FEATURES
- Rugged Construction Providing Shock, Dust and Moisture Resistance
- Dual Monitor Position With Automatic Image Orientation
- Automatic Arc Calibration and Ribbon Fiber Identification
- Auto-Start Tube Heater
- Color LCD Display With Anti-Reflective Coating for Excellent Visibility in Bright Sunlight
- Simultaneous Battery Charge and Splicer Operation
- Long Life Battery (Up To 90 Splice/Heat Cycles Per Charge)
- Perfect for use with Splice-On Connectors

ACCESSORIES

PART #	DESCRIPTION	PRICE
S013532	Electrodes for 60R (Pair)	$75.00
S013828	FH-50-12 12 Fiber Holders (Pair)	240.00
S013820	FH-50-8 8 Fiber Holders (Pair)	240.00
S013812	FH-50-4 4 Fiber Holders (Pair)	240.00
S013800	FH-50-250 for 250µm Single Fiber (Pair)	240.00
S013804	FH-50-900 for 900µm Single Fiber (Pair)	240.00
S014535	ADC-13 AC Adapter	370.00
S014540	BTR-08 Battery (160 splice/heater cycles)	296.00
S014541	DCC-14 Battery Charge Cord (for BTR-08)	37.00
S013552	DCC-12 Power Cord (Connects ADC-13 to Cigarette Socket)	92.50
S010532	ASW-02 Aerial Workstation	835.00
S014773	Portable Tripod Workstation Kit	495.00

AFL FSM-18S

The FSM-18S Fusion Splicer is a low cost, fixed V-groove, single fiber fusion splicer with the same robust features offered in other high end models. New features such as automatic tube heater operation, user-selectable clamping method, automated monitor image orientation, and battery charge capability during operation provide the end user a reliable productivity tool. New software is included with each splicer and provides the user with the ability to download splice data to a PC for splice data reporting and download splicer operating software via the Internet to maintain peak performance.

Ruggedized Case Also Acts as a Workstation for Splicing

30"

Withstands up to 30" Drop Test

FSM-18S Kit Includes: Splicer, Transit Case, AC Adapter, AC Cord, Video Instruction Manual, Spare Electrodes, Sheath Clamp, USB Cable, and Cooling Tray

PART #	DESCRIPTION	PRICE
S014527	FSM-18S Kit	$6,250.00
S014528	FSM-18S Kit with CT-30A Cleaver	7,150.00
S014560	FSM-18S Kit with CT-30A Cleaver, BTR-08 Battery, and DCC-14 Charge Cord	7,475.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
S013532	Electrodes for 18S (Pair)	$75.00
S014548	FH-60-250-250µm Fiber Holders (Pair)	240.00
S014549	FH-60-900 900µm Fiber Holders (Pair)	240.00
S014535	ADC-13 AC Adapter	370.00
S014540	BTR-08 Battery (160 splice/heater cycles)	296.00
S014541	DCC-14 Battery Charge Cord (for BTR-08)	37.00
S013552	DCC-12 Power Cord (Connects ADC-13 to Cigarette Socket)	92.50
S010532	ASW-02 Aerial Workstation	835.00
S014473	Portable Tripod Workstation Kit	495.00

AFL SPLICEMATE

AFL Telecommunications offers the most extensive and complete line of fusion splicers and related equipment for field splicing and factory/laboratory use. Our Fujikura splicers are the most widely used in the world, and known for their performance, productivity and reliability. The SpliceMate™, the world's smallest and most portable fusion splicer, is smart and reliable enough to be used with confidence by inexperienced operators.

FSM-11S

FSM-11S Kit Includes: Splicer, Transit Case, Battery, 250µm Fiber Holders, Battery Charger, Operation Manual, Spare Electrodes (Pair), AC Adapter, and AC Power Cord

PART #	DESCRIPTION	PRICE
S013956	FSM-11S Kit	$7,500.00
S013988	FSM-11S Kit plus CT-30 Cleaver	8,400.00
S014116	FSM-11D Dual Fiber Splicer Includes: Dual 900µm Fiber Holders, Battery, Battery Charger, Operation Manual, Spare Electrodes, and Transit Case	11,900.00

FSM-11R

FSM-11R Kit Includes: Transit Case, Battery, FH-50-4 Fiber Holders, Battery Charger, Operation Manual, Spare Electrodes, AC Adapter, and AC Power Cord.

PART #	DESCRIPTION	PRICE
S013960	FSM-11R Kit Up to 4 Fiber Ribbon, (No Single Fiber)	$8,900.00
S013992	FSM-11R Plus Battery Powered Hot Jacket Stripper and CT-30 Cleaver	10,900.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
S014028	Electrodes for FSM-11S/R	$100.00
S014052	SpliceMate Portable Workstation	330.00

FSM-18S Fusion Splicer

FEATURES
- 35 Second Tube Heater
- Dual Monitor Position
- Automatic Arc Calibration
- Wind Protector Withstands 30mph Winds
- Simultaneous Battery Charge and Splicer Operation
- Long-Life Batteries
- Software Upgrades Through PC Application Via the Internet
- Auto-Switching Monitor Position
- Perfect for use with Splice-On Connectors

FSM-11S Hand-Held

FEATURES
- Highly Portable (4.33"W x 3.14"D x 3.94"H)
- Dual Camera Inspection
- Auto Arc Calibration
- 3.5" Monitor
- Cladding Alignment
- Perfect for use with Splice-On Connectors

Rent it!

S178A
Fusion Splicer

NO EXPORT

Constructed to Resist Everyday Drops

Compatible with Splice on Connectors

FITEL S178A SPLICER

The FITEL® S178 Hand-Held Core-Alignment Fusion Splicer is the latest, state-of-the art addition to the S17x series of splicers. By combining speed, precision, durability and portability in one unit, the S178 Fusion Splicer ushers in an entirely new range of applications for core alignment splicing.

The S178A is equipped with a new alignment system that can reduce the splicing time by up to 20%. In addition, the improved heating mechanism also reduces the protection sleeve shrink time by more than 30% and the newly incorporated USB 2.0 interface speeds up PC communication and image/video transfer, while enhancing reliability.

FEATURES

• Rugged and compact handheld design
• Fast splice (7 sec) and Fast Heating (25 sec)
• 200 cycles (Splicing & Heating)
• Available for All METRO/LAN/FTTx fibers including ultra bend-insensitive fibers
• Easy maintenance
• Easy Software upgrade via the internet
• Easily exchanged fiber holder systems
• PC interface software
• Auto-start shrink sleeve oven
• Improved GUI to further enhance ease-of-use
• Large memory - 3,000 splice data and image 100 images
• Perfect for use with Splice-On Connectors

S178 Basic Kit Includes: S178A Main Body, S325A Precision Cleaver, Hard Case, Spare Electrodes, AC Adapter for S178, Electrode Cleaning Disc, Cleaning Brush, Fiber Stripper and User Manual.

PART #	DESCRIPTION	PRICE
S178-BK-XX	Basic Kit	$14,600.00
S178-VK-XX	Value Kit – Includes: Basic Kit items plus Battery, AC Adapter Battery Charger, fiber preparation fluid and dry wipes	14,799.00
S178-EX-XX	Extended Kit – Includes: Value Kit items plus extra battery	14,950.00
S178-EX-900	ValueKit Plus - Extra Battery, 250μm + 900μm holders	15,600.00

To select holder type replace "XX" with "10" for 10mm fiber clamps, "250" for 250μm fiber holders or "900" for 900μm fiber holders (Example – S178-BK-250 = Value kit w/ 250μm fiber holders)

S123C
Low Profile Splicer

NO EXPORT

Rent it!

S123 M12 on Tripod

FITEL S123C/S123M12 SPLICER

With its super low profile and new user interface, the FITEL S123 Series offers next generation workability for every splicing field: FTTx, LAN, backbone or long-haul installations. Combining the portability, power, flexibility and field ruggedness of FITEL's previous units, the S123 delivers fast and consistent splicing with outstanding mobility and ease-of-use.

FEATURES:

• 13 Second Splice in High-Speed Mode
• High-End Performance with Super-Low Cost
• Uses Fiber Holding System
• Built in Shrink Oven
• Perfect for use with Splice-On Connectors

FITEL

FITEL S153A SPLICER

The FITEL® S153 Fusion Splicer uses new Active V-Groove Technology to deliver low loss splices while helping to eliminate common Fixed V-groove splicing errors. Equipped with a new alignment system that can save up to 20% on splicing time, the S153 splicer's improved heating mechanism can also reduce protection sleeve shrink time by more than 30%. In addition, a newly incorporated USB 2.0 interface speeds PC communication and image/video transfer, while enhancing reliability.

S153A Basic Kits Includes: Splicer Main Body, 250µm Fiber Holders, 900µm Fiber Holders, AC Adaptor for S153, AC Adaptor for S958B, Battery for S153 (Qty 2), Battery Charger , Spare Electrodes, Hard Carrying Case, V-groove Cleaning Brush, User's Manual, Electrode Cleaning Disk, Fiber Stripper, One-Step High Precision Cleaver, Fiber Prep Fluid and Fiber Wipes.

PART #	DESCRIPTION	PRICE
S153A-BK-250	Basic Kit with 250µm Fiber Holders	$9,100.00
S153A-BK-900	Basic Kit with 900µm Fiber Holders	9,100.00
S153A-VK-250	Value Kit Value Kit – Includes: Basic Kit items plus Battery, AC Adapter Battery Charger, fiber preparation fluid, dry wipes and 250µm Fiber Holders	9,315.00
S153A-VK-900	Value Kit – Includes: Basic Kit items plus Battery, AC Adapter Battery Charger, fiber preparation fluid, dry wipe, and 900µm Fiber Holders	9,315.00
S153A-EX-900	Extended Kit Includes: Value Kit items plus extra battery, 250µm and 900µm Fiber Holders	9,850.00

**S153A
Fusion Splicer**

S153 ACCESSORIES

PART #	DESCRIPTION	PRICE
S712T-010	10mm Fiber Clamps	$450.00
S712T-016	16mm Fiber Clamps	450.00
S712S-250	250µm Fiber Holders	450.00
S712S-500	500µm Fiber Holders	450.00
S712S-900	900µm Fiber Holders	450.00
S712S-160	160µm Fiber Holders	750.00

FEATURES

- Rugged and Compact Handheld Design
- Fast Splicing and Heating
- 200 Cycles per Charge
- Available for all METRO/LAN/FTTx Fibers
- Easy Software Upgrades
- Large Memory for Storage of Splice Data and Images
- RoHS Compliant
- Perfect for use with Splice-On Connectors

UNIVERSIAL ACCESSORIES FOR S178, S153, S123

PART #	DESCRIPTION	PRICE
D5111	Electrode Sharpener	$8.00
USB-01	USB Cord	15.00
CTX-01	Cooling Tray	40.00
SCC-01	Soft Carrying Case	136.00
S943B	Battery	150.00
CDC-01	Car Cigarette Socket Cord	150.00
HCC-01	Hard Carrying Case	250.00
WBT-01	Working Belt	450.00

Basic Kit Includes: Splicer, Soft Case, 250µm Fiber Holders (pair), AC Adapter, Electrodes, Fiber Stripper, Precision Cleaver, Electrode Cleaning Disk, V-Groove Brush and Manual

PART #	DESCRIPTION	PRICE
S123CBASICKIT	123 Basic Kit	$6,999.00
S123CVALUEKIT	Basic Kit plus Battery, Battery Charger, and Cleaning Supplies	7,200.00
S123CEXTENDEDKIT	Value Kit Plus 900µm Fiber Holders, Extra Battery and Hard Case	7,985.00
S123M12	Handheld Ribbon Fusion Splicer, Hard Case, Fiber Reformer (Pair- 8/12), S943B Battery, S958B Battery Charger, S959U DC Adapter, S969 Electrodes (Pair), S976A AC Adapter and cord, D5111Electrode Sharpener, VGC-01 Cleaning Brush, FTS-B302 User Manual12-fiber Ribbon Fiber Holders (Pair), AC/DC Adapters & Cord, Cooling Tray, Battery Charger, and Operating Manual	17,255.00

S123 ACCESSORIES

PART #	DESCRIPTION	PRICE
S969	Electrodes for S178A/S153A/S123C (Pair)	$100.00
S972	DC Adapter for S123C	360.00
S712S-900	900µm Fiber Holders for S123C (Pair)	450.00
S967	Electrodes for S122M12 (Pair)	100.00

Splicing

NEW

Built-in Splice Oven

Splicer also includes FIS Lynx Precision Cleaver

Rent it!

Splice Monitor w/ Slide-In Storage Protection

NEW Touch Screen Technology

FEATURES

- Fast Splice Time – 9 seconds (Typical)
- Removable fiber holders for easy fiber handling
- 4.3" Color Touch Screen
- Dual Protection Sleeve Oven
- Up to 250 Splice/Heat cycles per battery charge
- Perfect for use with Splice-On Connectors with Metal SOC Holder

FIS SUPER COUGAR

The New Super Cougar core alignment fusion splicer has been designed to provide advanced features such as 4.3" touch screen and dual splice sleeve oven while delivering low loss fusion splices for even the most critical applications. Each feature of the Super Cougar has been designed with the user in mind, from its removable fiber holders to its fast splice time, making it an industry best value and one of the most user friendly units in the industry. Compatible with the Cheetah Splice On Connector, this fusion splicer is perfect from the premise to long haul OSP.

FIS Super Cougar Kit Includes: Splicer, Charger, Lynx Precision Cleaver, Mini Cleaning Kit, Carry Case, Electrodes, Fiber Optic Stripper, Brush and Manual.

PART #	DESCRIPTION	PRICE
F1-COUGAR2000	Cougar Kit	$9,995.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-COUGARAC	AC Charger for Standard and Super Battery Pack	$86.00
F1-COUGARSPRBAT	Super Battery Pack	585.00
F1-COUGARSTDBAT	Standard Battery Pack	300.00
F1-COUGARTRODE	Electrodes for Cougar (Pair)	85.00

DID YOU KNOW

Fusion Splicing

Core Alignment Splicers use multiple cameras to inspect the two cleaved fibers before fusing and allows for multiple axis movement of the fibers for precise alignment and a typical loss of 0.02dB. This precision is necessary for all singlemode fiber applications and provides the best performance on multimode fiber. Clad Alignment Splicers also have multiple cameras but only allow for single axis movement of the fiber and alignment is aided by a fixed V-groove. The typical loss for this type of splice is 0.05dB. As this is not a precision method, it is best suited for multimode applications.

QUALITY 100% GUARANTEED

Now get both Speed and Security with FIS' NEW Cheetah SOC Installer Certification and Extended Warranty!

SOC Certification	Extended Warranty
• Review Splicer Fundamentals	• 20 Year Coverage
• Troubleshooting Installations	• Available Worldwide
• Proper Installation of the SOC	• Applicable to all Styles

Contact Your Sales Rep or Visit www.fiberinstrumentsales.com for Further Details

fis FIBER INSTRUMENT SALES, INC.

FIS LYNX™ PRECISION CLEAVER

The LYNX provides clean, accurate cleaves required for fusion splicing. LYNX is also ideal for preparing fiber for quick-term style connectors such as Bobtails, UNICAMs and other pre-polished connectors. LYNX features a cleave angle of 90 degrees +/- 0.5 degrees. Its 16-position blade provides approximately 48,000 cleaves. LYNX cleaves single fibers (250-900µm). The LYNX Precision Cleaver can be used alone or mounted to an optional Work Tray that includes a goose neck LED.

PART #	DESCRIPTION	PRICE
F1-LYNX	LYNX Precision Cleaver	$595.00
F1-LYNXWKS	LYNX Cleaver with Illuminated Workstation	695.00
F1-LYNX2000	LYNX One-Step Deluxe Lynx Cleaver	765.00
F1-LYNXBLADE	LYNX Replacement Blade	95.00

F1-LYNX2000

F1-LYNXWKS

F1-LYNX

CT-10A

CT-30A

AFL CLEAVERS

The CT-30 Cleaver sets the standard for portability, reliability and ease of use. Available for either single fiber or ribbon splicing (up to 12 fiber ribbons) applications. The rugged, yet scaled-down design of the CT-10A cleaver offers cleave quality approaching that of the more expensive high precision cleavers but at a more economical price. The 16-position blade in each cleaver offers long life and performs cleaving in one single step.

| PART #	DESCRIPTION	PRICE
S014080	CT-30A Cleaver	$1,090.00
S014076	CT-30 Ribbon Cleaver	1,036.00
S014784	CT-10A Cleaver	733.35
S014819	Replacement Blade for CT-10A	251.60
S012828	Replacement Blade for CT-20/30 Series	92.50
S006244	AFL Cleaver Blade for CT07, CT100B & CT80B	140.00
S014096	AD-30A Adapter Plate (for variable length cleaving with the CT-30)	92.50
S014100	AD-30B Adapter Plate (for 16mm fixed cleave length with the CT-30)	92.50

FITEL PRECISION CLEAVER

The Fitel S325A precision cleaver solves the dilemma of stray fibers with a unique disposal system incorporated into the design. The automatic cleave function provides constant cleaving pressure and improves cleave quality. The cutting blade locks into place after scoring, preventing double scoring. Also can be used to cleave ribbon fiber.

PART #	DESCRIPTION	PRICE
S325A	Cleaver	$1,090.00
S32310	Replacement Blade	220.00

FITEL FUSION SPLICERS

NO EXPORT

S325A

F1-6000

F1-0010

NO EXPORT
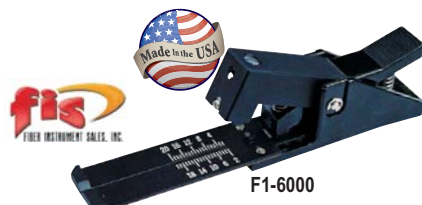
FIELD CLEAVERS

Choose from these three cleavers, suitable for use with quick-term connectors and optimal for mechanical splicing. Each cleaver provides a guide for variable cleave lengths from 5-20mm. The blades will perform over 6,000 cleaves before replacement is necessary. The score and snap function is easy to use and preferred by many installers. Note: No Export Available for F1-0010 and CL008

PART #	DESCRIPTION	PRICE
F1-6000	FIS Cleaver	$139.00
F1-0010	FITEL Cleaver	185.00
S315X02	Replacement Leaf Spring (suitable for all three cleavers)	60.00
F1-60CBL	FIS Replacement Blade (Carbide) **Suitable for both cleavers**	25.00
F1-60DBL	FIS Replacement Blade (Diamond)	60.00
CL008	FITEL Replacement Blade (Carbide) suitable for all three cleavers	60.00

AFL

900µm Versions Also Available

FEATURES
- Field Installable
- Only Four Components
- No Adhesives, Crimping or Polishing
- MM Compliant to TIA/EIA568C.3
- Compatible with Most Fusion Splicers

S014492

AFL FUSECONNECT™

FuseConnect utilizes a fusion splicer to terminate a connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance of >65dB return loss in an SC/APC configuration. Designed to work with an industry standard 10mm cleave length and splicers utilizing a fiber holder system, FuseConnect is compatible not only with Fujikura's fusion splicers, but also with most other industry available, fiber holder-based fusion splicing platforms.

PART #	DESCRIPTION	PRICE
CS004515	SM, SC/APC, 3.0mm, 1PK, Green	$15.70
CS004518	SM, SC/UPC, 3.0mm, 1PK, Blue	15.70
CS007793	MM, 62.5µm, SC, 3.0mm, 1PK, Beige	14.00
CS007794	MM, 62.5µm, SC, 2.0mm, 1PK, Beige	14.00
CS007799	MM, 50µm, SC, 3.0mm, 1PK, Black	14.00
CS007800	MM, 50µm, SC, 2.0mm, 1PK, Black	14.00
CS007806	MM, 50µm, 10GIG, SC, 2.0mm, 1PK, Aqua	14.00
CS008254	MM, 62.5µm, LC, 2.0mm, 1PK, Beige	15.00
CS008252	MM, 50µm, LC, 2.0mm, 1PK, Black	15.00
CS008250	MM, 50µm, 10GIG, LC, 2.0mm, 1PK, Aqua	15.00
S014516	Installation Kit for: FSM-11R, FSM-11S	1,150.00
S014492	Installation Kit for: FSM-17, 17R, 18, 18R, 50R, 60S, and 60R	995.00

NOTE: Use AFL Splicers with Fiber Holders for FuseConnect and Installation kit is recommended for best performance

FITEL SPLICE-ON CONNECTORS

FITEL's connector termination system allows for unsurpassed performance and flexibility in the field. The new "splice-on" connector (SOC) eliminates the need for field polishing and significantly improves the quality of the termination. FITEL's factory polished ferrules with pre-cleaved fiber stubs are spliced onto the field fiber utilizing FITEL's proprietary ferrule holder and fusion splicer. The connector is easily assembled by using a process that requires minimal skill or training. These connectors are optimal for use in data center applications and allow for easy field repair of pre-terminated splitters, fan outs, and drop terminals. Additionally, the FITEL SOC system requires no polishing or epoxy, increasing the quality and consistency of field connector termination. Total installation time is greatly reduced compared to traditional methods. Both singlemode and multi-mode versions are available.

900µm

PART #	DESCRIPTION	PRICE
FIT-LC50SOC	MMF LC/UPC 900µm (50/125) OM2	$35.70/ 6pk.
FIT-LC62SOC	MMF LC/UPC 900µm (62.5/125) OM1	35.70/ 6pk.
FIT-LCAPCSOC	SMF LC/APC 900µm	47.70/ 6pk.
FIT-LCOM3SOC	MMF LC/UPC 900µm (50/125) (OM3, Laser Optimized)	35.70/ 6pk.
FIT-LCUPCSOC	SMF LC/UPC 900µm	41.70/ 6pk.
FIT-SC50SOC	MMF SC/UPC 900µm (50/125) OM2	35.70/ 6pk.
FIT-SC62SOC	MMF SC/UPC 900µm (62.5/125) OM1	35.70/ 6pk.
FIT-SCAPCSOC	SMF SC/APC 900µm	47.70/ 6pk.
FIT-SCOM3SOC	MMF SC/UPC 900µm (50/125) (OM3, Laser Optimized)	35.70/ 6pk.
FIT-SCUPCSOC	SMF SC/UPC 900µm	41.70/ 6pk.

2.0mm

PART #	DESCRIPTION	PRICE
SSCS-P2	SMF SC/UPC for 2.0mm jacket cable	$20.33
SSCS-PN2	SMF SC/APC for 2.0mm jacket cable	21.00
SAPS-386	SMF FC/APC for 2.0mm jacketed cable	19.80
SAPS-356	SMF FC/UPC for 2.0mm jacketed cable	19.35

3.0mm

PART #	DESCRIPTION	PRICE
SSCS-P3	SMF SC/UPC for 3.0mm jacket cable	$20.33
SSCS-PN3	SMF SC/APC for 3.0mm jacket cable	21.00
SAPS-387	SMF FC/APC for 3.0mm jacketed cable	19.80
SAPS-357	SMF FC/UPC for 3.0mm jacketed cable	19.35

NOTE: Use Fitel Splicers with Fiber Holders for FuseConnect and Installation kit is recommended for best performance

FITEL®

FEATURES
- Simple, Fast, & Consistent Field Termination
- Applicable for Interconnection Needing High Reliability
- Available In FC, SC or PC, APC Types
- Complies with Telcordia GR-326-CORE

NO EXPORT

27mm Splice Sleeve with Stainless strength member ensures splice stability

Extended Handle Dust Cap to aid in handling of connector

Universal holder accommodates SC, LC, ST, and FC styles of connectors

Slotted to fit multiple splicers (Splicer-specific holders available)

ABS Outer Housing (SC ONLY)

Cleave protector designed for easy removal while providing maximum protection

Factory Polished Ferrule Exceeds Industry Standards for loss and back reflection

Factory cleaved and cleaned fiber stub ensures a quality splice and faster installation

$900\mu m$ Strain Relief Boot

Cheetah Splice-On Connector

FIBER INSTRUMENT SALES, INC.

Splicing

Terminations in Less than 3 Minutes!

FIS CHEETAH SOC™

The FIS Cheetah SOC is the quickest pre-polished factory terminated pigtail to prepare, splice and install. The Cheetah's 27mm splice protection sleeve is encapsulated and protected by the strain relief boot eliminating the need for splice trays, chips and extra cabinets. When used with the required universal holder it allows for the SOC to be used within a variety of fiber optic fusion splicers.

Each Vial Includes: Connector, Cleave Protector, Extended Dust Cap, 900µm Boot, and Fusion Splice Sleeve (each package contains 6 vials).

PART #	DESCRIPTION	PRICE
F1-SCAPC-SOC	SC/APC Singlemode, Green 900µm Boot, 6 pack	$47.70
F1-SCUPC-SOC	SC/UPC Singlemode, Blue 900µm Boot, 6 pack	41.70
F1-SC62-SOC	SC/PC 62.5µm Multimode (OM1), Beige 900µm Boot, 6 pack	35.70
F1-SC50-SOC	SC/PC 50µm Multimode (OM2), Black 900µm Boot, 6 pack	35.70
F1-SCOM3-SOC	SC/PC 50µm Multimode (OM3), Aqua 900µm Boot, 6 pack	35.70
F1-SCOM4-SOC	SC/PC 50µm Multimode (OM4), Magenta 900µm Boot, 6 pack	35.70
F1-FCAPC-SOC	FC/APC Singlemode, Green 900µm Boot, 6 pack	47.70
F1-FCUPC-SOC	FC/UPC Singlemode, Blue 900µm Boot, 6 pack	41.70
F1-FC62-SOC	FC/PC 62.5µm Multimode (OM1), Beige 900µm Boot, 6 pack	35.70
F1-FC50-SOC	FC/PC 50µm Multimode (OM2), Black 900µm Boot, 6 pack	35.70
F1-FCOM3-SOC	FC/PC 50µm Multimode (OM3), Aqua 900µm Boot, 6 pack	35.70
F1-STUPC-SOC	ST/UPC Singlemode, Blue 900µm Boot, 6 pack	41.70
F1-ST62-SOC	ST/PC 62.5µm Multimode (OM1), Beige 900µm Boot, 6 pack	35.70
F1-ST50-SOC	ST/PC 50µm Multimode (OM2), Black 900µm Boot, 6 pack	35.70
F1-STOM3-SOC	ST/PC 50µm Multimode (OM3), Aqua 900µm Boot, 6 pack	35.70
F1-LCAPC-SOC	LC/APC Singlemode, Green 900µm Boot, 6 pack	47.70
F1-LCUPC-SOC	LC/UPC Singlemode, Blue 900µm Boot, 6 pack	41.70
F1-LC62-SOC	LC/PC 62.5µm Multimode (OM1), Beige 900µm Boot, 6 pack	35.70
F1-LC50-SOC	LC/PC 50µm Multimode (OM2), Black 900µm Boot, 6 pack	35.70
F1-LCOM3-SOC	LC/PC 50µm Multimode (OM3), Aqua 900µm Boot, 6 pack	35.70
F1-LCOM4-SOC	LC/PC 50µm Multimode (OM4), Magenta 900µm Boot, 6 pack	35.70

SOC ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-SOC-OVEN	Cheetah Splice-On Connector Sleeve Oven	$295.00
F1-SOCHOLDER	SOC Universal Holder	4.95
F1-SOCMTL-S	FIS Metal SOC Holder for the Sumitomo Splicers (TYPE-39FH, TYPE-25, Quantum Q101-CA, TYPE-66, TYPE-65M24)	100.00
F1SOCMTL-AR	FIS Metal SOC Holder for AFL Splicers (11S, 60R12, 18R, 11R, 17S-FH, 50R, 17R)	100.00
F1-SOCMTL-A	FIS Metal SOC Holder for the AFL 60S & 18S Splicers	100.00
F1-SOCMTL-FIS	FIS Metal SOC Holder for the FIS Super Cougar	100.00
F1-SOCMTL-F	FIS Metal SOC Holder for the OFS Fitel Splicers (S122, S123C, S123M4, S123M8, S123M12, S178A, S153A)	100.00

Manufacturer	AFL		Sumitomo	FITEL
Model	FSM-11 (S/M) FSM-50R	FSM-18 (S/R) FSM-17 (S/R) FSM-60 (S/R)	Type-25e (U/S/M) Type-39, 46, 65, 66 Q101-CA	S122 (A/C/M) S121 (A/M), S123 (C/M) S153, S178 (A)
Compatible Cheetah SOC's	All versions	SC & LC ONLY	All versions	All versions

Free Fusion Splicer with Purchase of 2,490 Connectors in any combination!!

Limited time offer

NEW SOC Metal Holder

Patent Pending

F1SOCMTLS

F1-SOC-OVEN

LOCK JAW

These mechanical splices hold fiber with a self-gripping clamshell design. These unique splices also allow for the optional use of cyanoacrylate adhesive (e.g. Super Glue) to achieve a superior pull strength of 1.5 lbs. The splices fit into any mechanical splice style splice tray, accommodate 125µm clad fiber (singlemode or multimode) and have a typical loss of .2dB. The splices are also available in our new FIS Mechanical Splice Kit that includes 6 FIS Mechanical Splices, Jacket/Buffer Stripper, Field Cleaver, Adhesive, Optic Prep Wipes and Instructions.
Pull strength 1.5lbs with adhesive.

Free Samples Available

F1-MC125

PART #	DESCRIPTION	PRICE
F1-MC125	Splice for 125µm Clad Fiber SM or MM	$2.95
F1-MC1255K	Splice Kit - (6) splices, cleaver, adhesive, cleaner & strip tool	139.00

ELASTOMERIC LAB SPLICE

The improved FIS Elastomeric Lab Splice is ideal for making temporary fiber connections and can be reused hundreds of times. To use splice for instrument testing, simply insert a cleaved pigtail from OTDR or Power Meter and the cleaved unconnectorized fiber to be tested. Excellent for both multimode and singlemode fiber, the splice accepts fiber cladding diameters of 125µm to 140µm. The Lab Splices are supplied in blister packs of 6 (containing one of each color: pink, peach, yellow, green, blue and purple) or 12 (containing 2 of each color).

Improved Performance Lower Price!

PART #	DESCRIPTION	PRICE
FIS-1140-6	Pack of 6	$9.95
FIS-1140-12	Pack of 12	16.95
LBSHLDR	Holder	167.00

3M FIBRLOK II

The Fibrlok has an insertion loss <.2dB with a fiber retention of >7.75 lbs. Known for low reflection characteristics of -35dB. Using V groove technology, it requires no epoxy. Uses Fibrlok assembly tool 2501. Splice completed in 30 seconds after preparing fiber ends. Thermal stability of -40°C to 80°C. Now Fibrloks fit 250-900µm buffer sizes. Note: 2539 does not require 2501 tool for assembly.
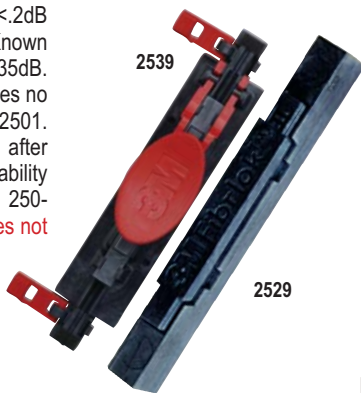
2539

2529

PART #	DESCRIPTION	PRICE
2539	Splice and Holder with Built-in Actuator (250µm or 900µm)	$10.30
2529	FIBRLOK II (250µm or 900µm)	7.95
2501	Assembly Tool (For use w/2529)	65.95

ULTRASPLICE®

The ULTRAsplice® is a high performance, easy to install, tunable and reusable mechanical splice. One splice accepts any combination of buffer sizes from 250µm-900µm. Average loss is less than .2dB with a fiber retention of over 2 lbs. Installation is simple: Cleave and insert the fibers, while checking fiber location in the glass capillary, secure by twisting a locking nut. US-126 is IBM #33G8228, US-128 is IBM #33G8227. Meets and exceeds Telcordia specifications.

Ask About Our Specialty Fiber Sizes

US-128

PART #	DESCRIPTION	PRICE
US-126	Singlemode UltraSplice	$7.95
US-128	Multimode UltraSplice	7.65
FSHLDR	Plastic Sleeve Holder for Splice Trays	2.55
USMOD	Installation and Holder Module	90¢

CAMSPLICE

This easy to install one size fits all mechanical splice features "Cam" locking mechanism, which requires no adhesive. The CamSplice incorporates a unique alignment method that self centers fibers, providing accurate alignment. Splice losses of less than 0.5dB are consistently achievable. Fits 250/250µm, 250/900µm and 900/900µm.

CORNING

95-00-04

PART #	DESCRIPTION	PRICE
95-000-04	Camsplice	$24.60
2104040-01	Assembly Fixture	235.65

MECHANICAL SPLICE PROTECTION HOUSING

Available from FIS is a metallic protection sleeve that slips over mechanical splices for rugged protection. Install tube and supplied shrink tubes onto cable before installation and apply heat source to fix housing into position. Accepts 95-000-04, US126, US128, 2529, F1-MC125 splices offered above.

F1-1002M

PART #	DESCRIPTION	PRICE
F1-1002M	Protection Housing	$2.95

**FIS** FIBER INSTRUMENT SALES, INC.

Made in the USA

No Heat Required!

Ultrasleeve® PROTECTION SLEEVE

Simply load the fused fiber and close the sleeve, no heat shrink curing, crimping or gluing. Ultrasleeve® features an acrylic foam tape, which seals the sleeve and protects from damage. The Ultrasleeve® splice protector can be closed by hand and is installed after splice is completed.
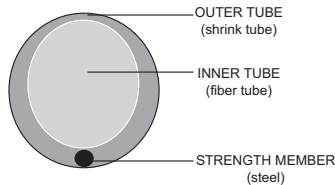
PART #	DESCRIPTION	PRICE
F1-FS40	40mm Splice Protection Sleeve	$1.15
F1-FS60	60mm Splice Protection Sleeve	1.35
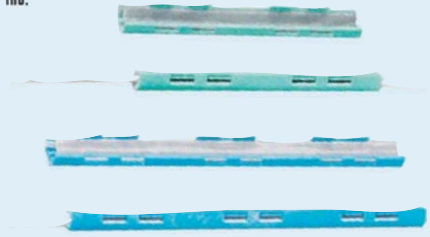
STANDARD SLEEVE – (3.0mm AFTER SHRINK)

This sleeve design represents the industry's most reliable, highest quality sleeve at an economical price. Standard lengths include 60mm and 40mm. Sleeves come standard with a clear outer tube for viewing the color of the fiber itself.

OUTER TUBE (shrink tube)
INNER TUBE (fiber tube)
STRENGTH MEMBER (steel)

PART #	DESCRIPTION	1-10	10+
F1-1002C-50	60mm, 50 pk (Clear)	$15.00	$13.00
F1-100240C-50	40mm, 50 pk (Clear)	15.00	13.00
F1-1002RC-50	60mm, 50 pk (Red)	15.00	13.00

TAPERED SLEEVE – (3.0mm AFTER SHRINK)

This newly developed sleeve offers tapered ends designed to keep the metal strength member in proper position while in use. Available in 60mm and 40mm lengths.

OUTER TUBE (shrink tube)
INNER TUBE (fiber tube)
STRENGTH MEMBER (steel)
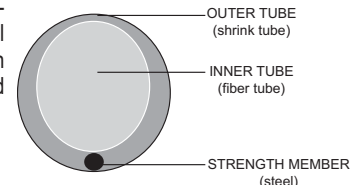
PART #	DESCRIPTION	1-10	10+
F1-1002T-50	60mm, 50 pk (Clear)	$15.00	$13.00
F1-100240T-50	40mm, 50 pk (Clear)	15.00	13.00

SLIM SLEEVE – (2.5mm AFTER SHRINK)

These clear protection sleeves use reduced diameter components for a smaller finished product. The smaller diameter allows users to fit more splices into existing splice trays.

OUTER TUBE (shrink tube)
INNER TUBE (fiber tube)
STRENGTH MEMBER (steel)
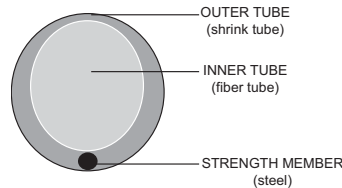
PART #	DESCRIPTION	1-10	10+
F1-S25C-50	60mm, 50 pk (Clear)	$15.00	$13.00
F1-S2540C-50	40mm, 50 pk (Clear)	15.00	13.00

MICRO SLEEVE (1.5mm After Shrink) & Mini Sleeve (2.0mm After Shrink)

Designed to fit smaller areas for splice storage are Mini and Micro Protection Sleeves. Micro Sleeves will only accommodate 250µm coated fibers. Mini Sleeves will accommodate 900µm or 250µm coated fibers.

PART #	DESCRIPTION	1-10	10+
MCRO140CFD-50	Micro 40mm, 50 pk (Clear)	$15.00	$13.00
MCRO125CFD-50	Micro 25mm, 50 pk (Clear)	15.00	13.00
MINI140CDS-50	Mini 40mm, 50 pk (Clear)	15.00	13.00
MINI125CDS-50	Mini 25mm, 50 pk (Clear)	15.00	13.00

RIBBON SLEEVE

FIS offers two ribbon sleeve styles: Dual Strength Member and Single Strength Member. The Dual Strength Member design eliminates any undue stress on the ribbon, creating a perfectly flat exit for the ribbon. Available with a ceramic strength member. F1-10112CP pictured.

OUTER TUBE (shrink tube)
STRENGTH MEMBER (ceramic)
INNER TUBE (fiber tube)
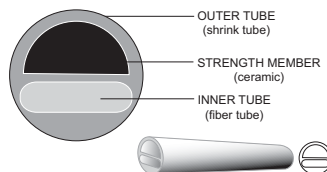
PART #	DESCRIPTION	FINAL SHRINK	1-249	250+
F1-10112DP	Dual Member 40mm, Clear	4.9mm - 5.7mm	95¢	90¢
F1-10112CP	Single Member 40mm, Clear	4.3mm - 5.1mm	69¢	59¢

DIELECTRIC SLEEVE – (3.0mm After Shrink)

Our Dielectric sleeves are manufactured with a non-metallic strength member for the ultimate in corrosion and electrical resistance.

PART #	DESCRIPTION	1-99	100-249	250-999	1000+
F1-DE60	60mm, Clear	65¢	55¢	45¢	35¢
F1-DE40	40mm, Clear	65¢	55¢	45¢	35¢

Splice Sleeve Spatula

The splice sleeve spatula is the perfect tool to aid in removing stubborn splice sleeves from splice protection chips. This tool provides adequate leverage and a wide flat surface to gently loosen any splice protection sleeve without damage.

PART #	DESCRIPTION	PRICING
10033301	FIS Splice Sleeve Spatula	$6.25

NEW

10033301

Splicing

F1-9774

FIS PROTECTION SLEEVE OVEN

FIS's new splice protection sleeve oven is the perfect companion to any fusion splicer by allowing for the external shrinking of fiber protections sleeves extending the life of a fusion splicers battery allowing for more splices in the field and improving the efficiency of the splice process. Low profile allows for easy placement of either 40mm or 60mm fusion splice sleeves while providing a stable base for a variety of applications.

PART #	DESCRIPTION	PRICE
F1-9774	Rechargeable Standard Splice Sleeve oven, universal 110/220VAC	$325.00

S000086

AFL PROTECTION SLEEVE OVEN

AFL's SH-7 is a fast, light, and compact heat shrink oven for splice protection sleeves. A mode switch allows selection for 40mm, 60mm, mass fusion splice sleeves and micro single sleeves. The heating time switch allows adjustment for ambient conditions.

PART #	DESCRIPTION	PRICE
S000086	SH-7 Tube Heater	$925.00

F1-TS900

FIS FIBER OPTIC THERMAL STRIPPER - TS SERIES

This thermal stripper is a portable device for stripping coated optical fiber. This compact hand-held device enables the stripping process to be completed with just one hand.

PART #	DESCRIPTION	PRICE
F1-TS900	FIS Fiber Optic Thermal Stripper (Removes 900µm coating)	$430.00
F1-TS250RF	FIS Fiber Optic Thermal Stripper (Removes 400µm/250µm coating on 12-ribbon fiber)	495.45
F1-TS250	FIS Fiber Optic Thermal Stripper (Removes 250µm coating)	430.00

AFL HOT JACKET RIBBON STRIPPER

The HJS-02 Hot Jacket Ribbon Stripper provides superior ribbon stripping performance. An optional single-fiber adapter may be used to provide easy, single fiber capability for difficult to strip fibers.This stripper also accepts the holders of the FSM-40F and FSM-40PM factory/lab splicers.
Fiber Holders not included.

Specifications: 1-12 fiber Ribbon, Stripping Length: 35mm max, Typical Heating Time: 3 sec. Normal Mode, Ribbon Thickness: 250µm –400µm, Dimensions: 107mm x 40mm x 29mm, Weight: 0.43 lb.

PART #	DESCRIPTION	PRICE
S010340	AFL HJS-02 Hot Jacket Stripper (12 fibers max.)	$647.50
S013828	FH-50-12 12 Fiber Holder (Pair)	240.00
S013820	FH-50-8 8 Fiber Holder (Pair)	240.00
S013812	FH-50-4 4 Fiber Holder (Pair)	240.00
S010428	SAD-01 AFL Single Fiber Adapter for HJS-02 (For use w/o Holders)	176.00
S014389	AC Power Supply	98.50
S014390	AC Power Cord	21.00

NOTE: For Stand Alone use AC Power Supply (S014389) and Power Cord (S014390) are Required

S010340

S218-R

FITEL HOT JACKET RIBBON STRIPPER

The Fitel Hot Ribbon Stripper applies controlled heat to fibers/ribbons during stripping to reduce stripping force required and prevent fiber damage. Heats up in 13 sec. Includes Batteries, AC/DC Adapter.
Fiber Holders not included.

PART #	DESCRIPTION	PRICE
S218-R	Fitel Hot Ribbon Stripper (fiber holders not included)	$1,450.00
S218X-02A	Power Cord (Connects Stripper to Fitel Splicer)	175.45
S218X-03	Single Fiber Adapter (For Use without Holders)	180.00
S709A-012	12-Ribbon Fiber Holders (Pair)	500.00

F1-AERIALBB

FIS BUCKET BUDDY

One of the most difficult locations from which to splice fiber optic cables is in an aerial closure where field technicians must perform a splice from an aerial bucket truck in a splicing closure suspended 15 – 30 feet from the ground. Technicians are faced with the challenge of securing the splicing machine or test equipment in a manner that facilitates a safe and easy fiber optic splice. The Bucket Buddy is unique in that its shape allows it to easily slide over the "lip" of the bucket on basically any aerial bucket truck, and it will remain in place, attached securely to the bucket itself, to provide technicians a workstation attached to the bucket with which they can perform fiber splices, tests, or terminate drops.

PART #	DESCRIPTION	PRICE
F1-AerialBB	Aerial Fusion Splicer Workstation (Fits up to 3" Bucket Lip)	$350.00

CABLE

TACTICAL CABLE

FIS Blue Broadcast/Tactical Cable consists of a polyurethane outer jacket with your choice of 2, 4, 6 or twelve 900µm tight buffers surrounded by aramid yarn and an aramid ripcord. Polyurethane jacket makes the cable highly flexible and rugged, so it can also be used in direct burial applications. Tactical fiber optic cables are designed for harsh outdoor environments where maximum performance and reliability is essential.

• Outdoor Sporting Events

• Re-deployable Audio/Video

• Mining & Industrial Environments

• Military Communications

PART #	FIBER COUNT	DESCRIPTION	PRICE
FB-SMTACCABLE4	4	4 Fiber Singlemode Tactical Cable	$1.87 /Mtr.
FB-SMTACCABLE6	6	6 Fiber Singlemode Tactical Cable	2.57 /Mtr.
FB-SMTACCABLE12	12	12 Fiber Singlemode Tactical Cable	3.49 /Mtr.
FB-MMTACCABLE4	4	4 Fiber Multimode Tactical Cable	2.55 /Mtr.
FB-MMTACCABLE6	6	6 Fiber Multimode Tactical Cable	3.28 /Mtr.
FB-MMTACCABLE12	12	12 Fiber Multimode Tactical Cable	5.24 /Mtr.

Fiber Instrument Sales, Inc. (FIS) is able to provide UL approved and RoHS custom manufactured fiber optic cable. These cables are available in a variety of standard configurations as well as custom built to your specifications. Standard fiber optic cable including simplex, duplex and multifiber styles are in stock for quick delivery. In addition, our extrusion machines are capable of manufacturing fiber optic cable with different jacket colors, coating diameters, fiber counts, tight buffer diameters, jacket materials and more. To request additional information regarding TLC cable, call your FIS sales representative today! Please note: Cable is printed with only core/clad, fiber length and UL markings.

RE-SPOOLING SERVICE
We cut & spool fiber or cable to your specified lengths

F1-18SPOOL

CABLE BUYING GUIDELINES

1. Allowable cable length for shipping and billing is -0/+10%.

2. Cut fees will apply on simplex and duplex cable orders less than 305 meters (1,000 ft.). $10 each cut/spool.

3. Specialty cut and hand coiled fees will apply on multiple simplex and duplex bulk cable orders, $5 each.

4. Cut fees will apply on multifiber bulk cable orders less than 100 meters (328 ft.) $20 each cut/spool.

5. Cut charges do not apply when cable reels that are in stock are offered and accepted.

plus
CORNING®
Optical Fiber

THREE-PIECE SPOOL
The three-piece spool features plastic flanges bolted to a kraft barrel, creating a durable, dimensionally true and splinter-free reel. Flange diameter is18" while the barrel diameter 8.25", making it perfect for bulk cable or long assemblies.

PART #	DESCRIPTION	PRICE
F1-18SPOOL	Three Piece Spool	$15.95

DID YOU KNOW
10 GIG, ClearCurve® & BEYOND

Fiber-to-the-Home and Desk (FTTx) applications have resulted in the creation of several new grades of multimode fiber. The use of Gigabit and 10 Gig fibers can help future proof your network. New Bend Insensitive fibers are also becoming very popular. These fibers can be bent down to very small diameters without affecting the optical signal. FTTx applications use bend insensitive fiber because of its ease and flexibility of installation.

TLC's Gigabit Cables are designed with Corning® InfiniCor® ClearCurve® Laser-Optimized™ Optical Fiber, engineered specifically for laser-based local area network protocols such as Gigabit Ethernet. Singlemode fibers are Corning® SMF-28e+®, ClearCurve® ZBL and ClearCurve® XB optical fibers. TLC will also customize materials and constructions to meet your individual requirements.

What is OM1, OM2, OM3 & OM4 MULTIMODE CABLE?

FIBER TYPE	STANDARD DESIGNATION	JACKET COLOR (typical)	MAXIMUM ATTENUATION (dB/km)		TRANSMISSION DISTANCE FOR (in meters)		MINIMAL MODAL BANDWIDTH (MHz/km)	
			850nm	1300nm	1 Gb/s	10 Gb/s	OVERFILLED LAUNCH 850nm	OVERFILLED LAUNCH 1300nm
62.5/125	OM1	Orange	3.5	1.5	300	30	200	500
50/125	OM2	Orange	3.5	1.5	600	150	500	500
50/125	OM3	Aqua	3.5	1.5	1,000	300	1500	500
50/125	OM4	Aqua/Magenta	3.5	1.5	1,110	550	3500	500

Corning® ClearCurve®

ClearCurve® fibers are fully compliant with ITU-T G.652.D and G.657 standards. These fibers are designed to meet a wide array of applications including both inside and outside plant installations. Network designers, operators, and installers choose ClearCurve® fibers for their superior bending performance, backward compatibility with the G.652.D standard and their ability to minimize bend-loss throughout any installation. Use the chart, right, to aid in selecting the right ClearCurve® fiber for your application.

ClearCurve® Singlemode	Application	ITU-T	Radius	Corning Spec
ClearCurve® ZBL singlemode fiber —Ultra low bend loss	• Virtually no bend-loss in most indoor applications • Very low loss in extreme (5mm) bend environments • Enables smaller components and flexible yet reliable networks	Exceeds G. 657.A3* /B3	5 mm	< 0.10 dB/turn
			7.5 mm	< 0.05 dB/turn
ClearCurve® XB singlemode fiber —Enhanced bend capability	• Improved performance vs. standard singlemode fiber • Appropriate for outside plant and some high-fiber count and tight buffer indoor applications • Enables a broader range of cable design options and deployment flexibility	Exceeds G. 657.A1	10 mm	< 0.50 dB/turn

Made in the USA

By joining our Cable Assembly Partners you will be able to take advantage of incredible Cable and Polish Film Price Savings.

CAP CABLE ASSEMBLY PARTNERSHIP PROGRAM

Corning® BARE FIBER (245µm)

For high-data-rate, long haul terrestrial, regional and metropolitan ring networks or local access and premise applications. Corning® offers fibers that are designed for greater capacity and flexibility. Respooling capabilities are available. There is a respooling charge of 5¢ per meter for lengths over 2,000 meters. Any length under 2,000 meters will incur a minimum spooling charge of $10.00.

PART #	DESCRIPTION	PRICE
SMF-28e+®	Corning® SMF-28e+® fiber OS2 with NexCor Technology 9/125µm (G.652)	8¢ /Mtr.
ClearCurve®XB	Corning® ClearCurve® XB (G.657A)	10¢ /Mtr.
SMFLF	Corning® LEAF® fiber Non-Zero Dispersion 9/125µm (G.655)	11¢ /Mtr.
ClearCurve®ZBL	Corning® ClearCurve® SM ZBL (G.657A/B)	28¢ /Mtr.
InfiniCor® 300	Corning® InfiniCor® 300 fiber® OM1 fiber 62.5/125µm	13¢ /Mtr.
ClearCurve®OM2	Corning® ClearCurve® OM2 fiber 50/125µm	13¢ /Mtr.
ClearCurve®OM3	Corning® ClearCurve® OM3 fiber 50/125µm	20¢ /Mtr.
ClearCurve®OM4	Corning® ClearCurve® OM4 fiber 50/125µm	35¢ /Mtr.

Corning® SPECIALTY PM PHOTONIC FIBERS

Corning® Specialty PM Photonic Fibers, designed with the best polarization maintaining properties in the world today, offer low attenuation and excellent birefringence for next generation network systems. The fibers are available in a wide range of standard operating wavelengths up to 1550nm, including 14XX optimized for Raman applications.

PART #	DESCRIPTION	PRICE
PM15-U25	Puremode™ PM 1550 w/250µm Dual Acrylate Coating (100KPSI)	$8.75 /Mtr.
PM15-U40	Puremode™ PM 1550 w/400µm Dual Acrylate Coating (100KPSI)	8.75 /Mtr.
PM98-U25H	Puremode™ PM 980 w/250µm Dual Acrylate Coating (200KPSI)	11.35 /Mtr.

Corning® SPECIALTY HI PHOTONIC FIBERS

Corning® Specialty HI Photonic Fibers offer world class durability and reliability. When used as component pigtails, this fiber allows for efficient fiber coupling within photonic products.

PART #	MAXIMUM ATTENUATION	CUTOFF WAVELENGTH	MODE-FIELD DIA.	PRICE
HI980-6	≤ 2.5dB/km @ 980nm	930 ± 50nm	4.2µm @ 980nm	$2.50 /Mtr.
HI1060-6-H	2.1dB/km @ 980nm	920 ± 50nm	5.9 ± 0.5µm @ 980nm	2.75 /Mtr.
	1.5dB/km @ 1060nm		6.2 ± 0.5µm @ 1060nm	
			9.9 ± 0.5µm @1550nm	

TLC FLAT RIBBON - Bare 245µm

PART #	DESCRIPTION	PRICE
S09-RB012-C	12 Fiber Singlemode 9/125µm Bare 245µm - OS2	$1.10 /Mtr.
M62-RB012-C	12 Fiber Multimode 62.5/125µm Bare 245µm - OM1	2.00 /Mtr.
M50-RB12-CG	12 Fiber Multimode 50/125µm ClearCurve® Bare 245µm - OM3	2.85 /Mtr.

TLC FLAT RIBBON CABLE

PART #	DESCRIPTION	PRICE
S09-RB012-CNRY	12 Fiber Singlemode 9/125µm Riser Yellow - OS2	$1.20 /Mtr.
M62-RB12-C3NRO	12 Fiber Multimode 62.5/125µm Riser Jacketed Orange - OM1	2.35 /Mtr.
M62-RB12-C3NPO	12 Fiber Multimode 62.5/125µm Plenum Jacketed Orange - OM1	2.75 /Mtr.
M50-RB12-C2NRO	12 Fiber Multimode 50/125µm RiserJacketed Orange - OM2	2.35 /Mtr.
M50-RB12-CGNRA	12 Fiber Multimode 50/125µm Corning® ClearCurve OM3 Riser Jacket Aqua	3.25 /Mtr.
M50-RB12-CGNPA	12 Fiber Multimode 50/125µm Corning® ClearCurve OM3 Plenum Jacket Aqua	3.50 /Mtr.

RIBBON CABLE

900µm TIGHT BUFFER SINGLEMODE & MULTIMODE CABLE

PART #	DESCRIPTION	PRICE	PART #	DESCRIPTION	PRICE
S09-TB01-CNPW	Plenum White SM 9/125µm	15¢ /Mtr.	M62-TB01-C3NPW	Plenum White MM 62/125µm	23¢ /Mtr.
S09-TB01-CNPA	Plenum Aqua SM 9/125µm	15¢ /Mtr.	M62-TB01-C3NPO	Plenum Orange MM 62/125µm	23¢ /Mtr.
S09-TB01-CBNPW	Plenum ClearCurve® XB White	18¢ /Mtr.	M50-TB01-C2NPW	Plenum White MM 50/125µm	23¢ /Mtr.
S09-TB01-CNPY	Plenum Yellow SM 9/125µm	15¢ /Mtr.	M50-TB01-C2NPO	Plenum Orange MM 50/125µm	35¢ /Mtr.
M50-TB01-CGNPA	Plenum ClearCurve® MM OM3 Aqua	30¢ /Mtr.	M50-TB01-C4NPA	Plenum ClearCurve® MM OM4 Aqua	40¢ /Mtr.

MORE COLORS AND FIBER TYPES AVAILABLE

FIBERCORE LTD. POLARIZATION MAINTAINING FIBER

Fibercore's HB series polarization maintaining fiber (80 and 125 micron) with the characteristic "bow tie" stress applying parts gives you the very best in performance and handling.

PART #	DESCRIPTION	OPERATING WAVELENGTH	PRICE
HB1500	Singlemode PM Fiber (245µm coating) 7.9/125µm	1550nm	$9.75 /Mtr.
HB1250P	Polyimide Coated PM Fiber (145µm coating) 6.6/125µm	1300nm	15.50 /Mtr.
HB1250T	PM Fiber for Telecom Applications (400µm coating) 9/125µm	1310nm	12.50 /Mtr.

FIBERCORE LTD. SPECIALTY SINGLEMODE FIBER

Fibercore Ltd's Specialty Singlemode Optical Fibers (80 and 125 micron) have been proven to perform in a wide range of challenging applications for wavelengths from 450nm to 1500nm.

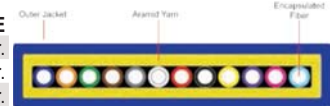| PART #	DESCRIPTION	OPERATING WAVELENGTH	PRICE
SM600	Singlemode Fiber 4.3/125µm (245µm coating)	633/688nm	$2.50 /Mtr.
SM800	Singlemode Fiber 4.2/80µm (175µm coating)	830nm	2.50 /Mtr.
SM980	Singlemode Fiber 4.5/125µm (245µm coating)	980/1550nm	2.50 /Mtr.

TLC LARGE CORE FIBER CABLE

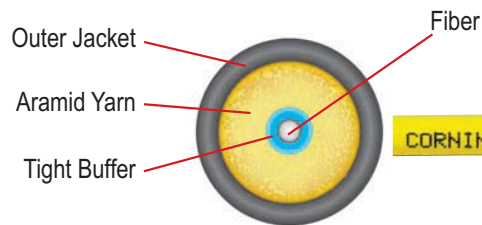| PART #	DESCRIPTION	PRICE
M10-SX01-LNRG	100/140µm 3.0mm Simplex (MM) Green	95¢ /Mtr.
M20-SX01-LNRB	200/230µm 3.0mm Simplex (MM) Blue	$1.35 /Mtr.
M10-DX02-LNRG	100/140µm 3.0mm Duplex (MM) Green	1.95 /Mtr.
M20-DX02-LNRB	200/230µm 3.0mm Duplex (MM) Blue	2.20 /Mtr.

Cable

www.fiberinstrumentsales.com

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SIMPLEX/DUPLEX CABLE

FIS supplies the industry's broadest array of Fiber Optic Cable and Tubing for all Access and Premises Network Applications. These include Standard and Customized Simplex, Duplex, Tight Buffer, Distribution, Loose Tube Indoor/Outdoor and Ribbon Cable, as well as furcation tubing to fit the varied fanout applications.

plus CORNING® Optical Fiber

SIMPLEX CABLE

DUPLEX CABLE

CORNING OPTICAL FIBER
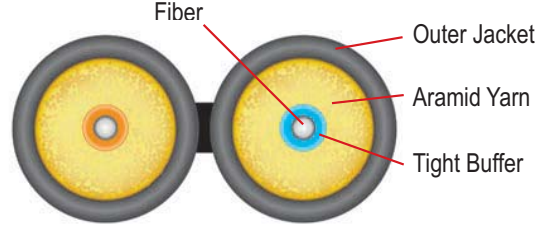
9/125µm - OS2 SINGLEMODE
Corning® SMF-28e+® fiber

SIMPLEX CABLE					DUPLEX CABLE				
3.0mm					**3.0mm**				
PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE	PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
S09-SX01-CNRY	Riser Yellow	900µm	TLC	23¢ /Mtr.	S09-DX02-CNRY	Riser Yellow	900µm	TLC	33¢ /Mtr.
S09-SX01-CNRR	Riser Red	900µm	TLC	23¢ /Mtr.	S09-DX02-CNRR	Riser Red	900µm	TLC	33¢ /Mtr.
S09-SX01-CNPY	Plenum Yellow	900µm	TLC	25¢ /Mtr.	S09-DX02-CNPY	Plenum Yellow	900µm	TLC	40¢ /Mtr.
1E31-311-31	Riser Yellow	900µm	CCS	30¢ /Mtr.	2E51-311-31	Riser Yellow	900µm	CCS	55¢ /Mtr.
2.0mm					**2.0mm**				
S09-SX01-CNRY20	Riser Yellow	900µm	TLC	23¢ /Mtr.	S09-DX02-CNRY20	Riser Yellow	900µm	TLC	33¢ /Mtr.
S09-SX01-CNPY20	Plenum Yellow	900µm	TLC	25¢ /Mtr.	S09-DX02-CNPY20	Plenum Yellow	900µm	TLC	40¢ /Mtr.
1.6mm					**1.6mm**				
S09-SX01-CNRY16	Riser Yellow	650µm	TLC	23¢ /Mtr.	S09-DX02-CNRY16	Riser Yellow	650µm	TLC	33¢ /Mtr.
S09-SX01-CNPY16	Plenum Yellow	650µm	TLC	25¢ /Mtr.	S09-DX02-CNPY16	Plenum Yellow	650µm	TLC	40¢ /Mtr.

9/125µm - SINGLEMODE BEND OPTIMIZED
Corning® ClearCurve® XB fiber (10mm Radius) G657.A1

SIMPLEX CABLE					DUPLEX CABLE				
3.0mm					**3.0mm**				
PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE	PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
S09-SX01-CBNRB	Riser Blue	900µm	TLC	25¢ /Mtr.	S09-DX02-CBNRB	Riser Blue	900µm	TLC	35¢ /Mtr.
S09-SX01-CBNRY	Riser Yellow	900µm	TLC	25¢ /Mtr.	S09-DX02-CBNRY	Riser Yellow	900µm	TLC	35¢ /Mtr.
2.0mm					**2.0mm**				
S09-SX01-CBNRB20	Riser Blue	900µm	TLC	25¢ /Mtr.	S09-DX02-CBNRB20	Riser Blue	900µm	TLC	35¢ /Mtr.
S09-SX01-CBNRY20	Riser Yellow	900µm	TLC	25¢ /Mtr.	S09-DX02-CBNRY20	Riser Yellow	900µm	TLC	35¢ /Mtr.
1.6mm					**1.6mm**				
S09-SX01-CBNRB16	Riser Blue	650µm	TLC	25¢ /Mtr.	S09-DX02-CBNRB16	Riser Blue	650µm	TLC	35¢ /Mtr.
S09-SX01-CBNRY16	Riser Yellow	650µm	TLC	25¢ /Mtr.	S09-DX02-CBNRY16	Riser Yellow	650µm	TLC	35¢ /Mtr.

9/125µm - SINGLEMODE ULTRA LOW BEND OPTIMIZED
Corning® ClearCurve® ZBL fiber (5 - 7.5mm Radius) G657.B2

SIMPLEX CABLE					DUPLEX CABLE				
3.0mm					**3.0mm**				
PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE	PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
S09-SX01-CCNRB	Riser Blue	900µm	TLC	35¢ /Mtr.	S09-DX02-CCNRB	Riser Blue	900µm	TLC	70¢ /Mtr.
S09-SX01-CCNRY	Riser Yellow	900µm	TLC	35¢ /Mtr.	S09-DX02-CCNRY	Riser Yellow	900µm	TLC	70¢ /Mtr.
1.6mm					**1.6mm**				
S09-SX01-CCNRB16	Riser Blue	650µm	TLC	35¢ /Mtr.	S09-DX02-CCNRB16	Riser Blue	650µm	TLC	70¢ /Mtr.
S09-SX01-CCNRY16	Riser Yellow	650µm	TLC	35¢ /Mtr.	S09-DX02-CCNRY16	Riser Yellow	650µm	TLC	70¢ /Mtr.

62.5/125µm - OM1 MULTIMODE
InfiniCor® 300 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M62-SX01-C3NRO	Riser Orange	900µm	TLC	25¢ /Mtr.
M62-SX01-C3NPO	Plenum Orange	900µm	TLC	29¢ /Mtr.
1K31-311-41	Riser Orange	900µm	CCS	29¢ /Mtr.

2.0mm

M62-SX01-C3NRO20	Riser Orange	900µm	TLC	25¢ /Mtr.
M62-SX01-C3NPO20	Plenum Orange	900µm	TLC	29¢ /Mtr.

1.6mm

M62-SX01-C3NRO16	Riser Orange	650µm	TLC	25¢ /Mtr.
M62-SX01-C3NPO16	Plenum Orange	650µm	TLC	29¢ /Mtr.

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M62-DX02-C3NRO	Riser Orange	900µm	TLC	45¢ /Mtr.
M62-DX02-C3NPO	Plenum Orange	900µm	TLC	55¢ /Mtr.
2K51-311-41	Riser Orange	900µm	CCS	90¢ /Mtr.

2.0mm

M62-DX02-C3NRO20	Riser Orange	900µm	TLC	45¢ /Mtr.
M62-DX02-C3NPO20	Plenum Orange	900µm	TLC	55¢ /Mtr.

1.6mm

M62-DX02-C3NRO16	Riser Orange	650µm	TLC	45¢ /Mtr.
M62-DX02-C3NPO16	Plenum Orange	650µm	TLC	55¢ /Mtr.

50/125µm - OM2 MULTIMODE
Corning® ClearCurve® OM2 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-SX01-C2NRO	Riser Orange	900µm	TLC	25¢ /Mtr.
M50-SX01-C2NPO	Plenum Orange	900µm	TLC	29¢ /Mtr.
001T31-311-3124	Plenum Orange	900µm	CCS	40¢ /Mtr.

2.0mm

M50-SX01-C2NRO20	Riser Orange	900µm	TLC	25¢ /Mtr.
M50-SX01-C2NPO20	Plenum Orange	900µm	TLC	29¢ /Mtr.

1.6mm

M50-SX01-C2NRO16	Riser Orange	650µm	TLC	25¢ /Mtr.
M50-SX01-C2NPO16	Plenum Orange	650µm	TLC	29¢ /Mtr.

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-DX02-C2NRO	Riser Orange	900µm	TLC	45¢ /Mtr.
M50-DX02-C2NPO	Plenum Orange	900µm	TLC	55¢ /Mtr.
002T51-311-3124	Plenum Orange	900µm	CCS	70¢ /Mtr.

2.0mm

M50-DX02-C2NRO20	Riser Orange	900µm	TLC	45¢ /Mtr.
M50-DX02-C2NPO20	Plenum Orange	900µm	TLC	55¢ /Mtr.

1.6mm

M50-DX02-C2NRO16	Riser Orange	650µm	TLC	45¢ /Mtr.
M50-DX02-C2NPO16	Plenum Orange	650µm	TLC	55¢ /Mtr.

50/125µm - OM3 MULTIMODE-10 Gig
Corning® ClearCurve® OM3 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-SX01-CGNRA	Riser Aqua	900µm	TLC	35¢ /Mtr.
M50-SX01-CGNPA	Plenum Aqua	900µm	TLC	40¢ /Mtr.

2.0mm

M50-SX01-CGNRA20	Riser Aqua	900µm	TLC	35¢ /Mtr.
M50-SX01-CGNPA20	Plenum Aqua	900µm	TLC	40¢ /Mtr.

1.6mm

M50-SX01-CGNRA16	Riser Aqua	650µm	TLC	35¢ /Mtr.
M50-SX01-CGNPA16	Plenum Aqua	650µm	TLC	40¢ /Mtr.

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-DX02-CGNRA	Riser Aqua	900µm	TLC	60¢ /Mtr.
M50-DX02-CGNPA	Plenum Aqua	900µm	TLC	68¢ /Mtr.

2.0mm

M50-DX02-CGNRA20	Riser Aqua	900µm	TLC	60¢ /Mtr.
M50-DX02-CGNPA20	Plenum Aqua	900µm	TLC	68¢ /Mtr.

1.6mm

M50-DX02-CGNRA16	Riser Aqua	650µm	TLC	60¢ /Mtr.
M50-DX02-CGNPA16	Plenum Aqua	650µm	TLC	68¢ /Mtr.

50/125µm - OM4 MULTIMODE-10 Gig
Corning® ClearCurve® OM4 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-SX01-C4NRA	Riser Aqua	900µm	TLC	35¢ /Mtr.
M50-SX01-C4NPA	Plenum Aqua	900µm	TLC	35¢ /Mtr.
M50-SX01-C4NRM	Riser Magenta	900µm	TLC	48¢ /Mtr.
M50-SX01-C4NPM	Plenum Magenta	900µm	TLC	55¢ /Mtr.

2.0mm

M50-SX01-C4NRA20	Riser Aqua	900µm	TLC	48¢ /Mtr.
M50-SX01-C4NPA20	Plenum Aqua	900µm	TLC	55¢ /Mtr.
M50-SX01-C4NRM20	Riser Magenta	900µm	TLC	48¢ /Mtr.
M50-SX01-C4NPM20	Plenum Magenta	900µm	TLC	55¢ /Mtr.

1.6mm

M50-SX01-C4NRA16	Riser Aqua	650µm	TLC	48¢ /Mtr.
M50-SX01-C4NPA16	Plenum Aqua	650µm	TLC	55¢ /Mtr.
M50-SX01-C4NRM16	Riser Magenta	650µm	TLC	48¢ /Mtr.
M50-SX01-C4NPM16	Plenum Magenta	650µm	TLC	55¢ /Mtr.

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-DX02-C4NRA	Riser Aqua	900µm	TLC	$1.00 /Mtr.
M50-DX02-C4NPA	Plenum Aqua	900µm	TLC	1.10 /Mtr.
M50-DX02-C4NRM	Riser Magenta	900µm	TLC	1.00 /Mtr.
M50-DX02-C4NPM	Plenum Magenta	900µm	TLC	1.10 /Mtr.

2.0mm

M50-DX02-C4NRA20	Riser Aqua	900µm	TLC	$1.00 /Mtr.
M50-DX02-C4NPA20	Plenum Aqua	900µm	TLC	1.10 /Mtr.
M50-DX02-C4NRM20	Riser Magenta	900µm	TLC	1.00 /Mtr.
M50-DX02-C4NPM20	Plenum Magenta	900µm	TLC	1.10 /Mtr.

1.6mm

M50-DX02-C4NRA16	Riser Aqua	650µm	TLC	$1.00 /Mtr.
M50-DX02-C4NPA16	Plenum Aqua	650µm	TLC	1.10 /Mtr.
M50-DX02-C4NRM16	Riser Magenta	650µm	TLC	1.00 /Mtr.
M50-DX02-C4NPM16	Plenum Magenta	650µm	TLC	1.10 /Mtr.

Cable

- Outer Jacket
- Aramid Yarn
- Tight Buffer

(TYPICAL CONSTRUCTION)
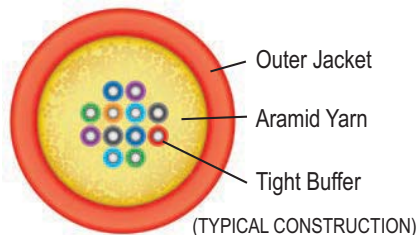
plus **CORNING®** Optical Fiber

DISTRIBUTION CABLE

Distribution Cable (compact building cable) packages individual 900µm buffered fiber, reducing size and cost when compared to breakout cable. The connectors may be installed directly on the 900µm buffered fiber at the breakout box location. The space saving (OFNR) rated cable may be installed wherever breakout cable is used.

9/125µm - OS2 SINGLEMODE
Corning® SMF-28e+® fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
S09-DI06-CNRY	6	Riser Yellow	TLC	75¢ /Mtr.	S09-DI24-CNPY	24	Plenum Yellow	TLC	$3.55 /Mtr.
S09-DI06-CNPY	6	Plenum Yellow	TLC	85¢ /Mtr.	024R-813-313124	24	Riser Yellow	CCS	5.25 /Mtr.
S09-DI12-CNRY	12	Riser Yellow	TLC	$1.40 /Mtr.	M9W606-48F	48	Riser Yellow	Mohawk	6.75 /Mtr.
S09-DI12-CNPY	12	Plenum Yellow	TLC	1.55 /Mtr.	048R-816-113124	48	Riser Yellow	CCS	11.25 /Mtr.
012R-813-313124	12	Riser Yellow	CCS	2.35 /Mtr.	M9W609-72F	72	Riser Yellow	Mohawk	9.15 /Mtr.
S09-DI24-CNRY	24	Riser Yellow	TLC	3.45 /Mtr.	M9W622-96F	96	Riser Yellow	Mohawk	13.55 /Mtr.

9/125µm - SINGLEMODE BEND OPTIMIZED
Corning® ClearCurve® XB fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
S09-DI06-CBNRY	6	Riser Yellow	TLC	80¢ /Mtr.	S09-DI06-CBNRB	6	Riser Blue	TLC	80¢ /Mtr.
S09-DI12-CBNRY	12	Riser Yellow	TLC	$1.50 /Mtr.	S09-DI12-CBNRB	12	Riser Blue	TLC	$1.50 /Mtr.
S09-DI24-CBNRY	24	Riser Yellow	TLC	3.60 /Mtr.	S09-DI24-CBNRB	24	Riser Blue	TLC	3.60 /Mtr.
S09-DI06-CBNPY	6	Plenum Yellow	TLC	90¢ /Mtr.	S09-DI06-CBNPB	6	Plenum Blue	TLC	90¢ /Mtr.
S09-DI12-CBNPY	12	Plenum Yellow	TLC	$1.65 /Mtr.	S09-DI06-CBNPB	12	Plenum Blue	TLC	$1.65 /Mtr.
S09-DI24-CBNPY	24	Plenum Yellow	TLC	3.70 /Mtr.	S09-DI06-CBNPB	24	Plenum Blue	TLC	3.70 /Mtr.

62.5/125µm OM1 MULTIMODE
InfiniCor® 300 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M62-DI04-C3NRO	4	Riser Orange	TLC	$1.05 /Mtr.	M62-DI12-C3NRO	12	Riser Orange	TLC	$2.35 /Mtr.
M62-DI04-C3NPO	4	Plenum Orange	TLC	1.10 /Mtr.	M62-DI12-C3NPO	12	Plenum Orange	TLC	2.65 /Mtr.
M62-DI06-C3NRO	6	Riser Orange	TLC	1.20 /Mtr.	M62-DI24-C3NRO	24	Riser Orange	TLC	4.75 /Mtr.
M62-DI06-C3NPO	6	Plenum Orange	TLC	1.35 /Mtr.	M62-DI24-C3NPO	24	Plenum Orange	TLC	5.40 /Mtr.

50/125µm - OM2 MULTIMODE
Corning® ClearCurve® OM2 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M50-DI04-C2NRO	4	Riser Orange	TLC	$1.05 /Mtr.	M50-DI12-C2NRO	12	Riser Orange	TLC	$2.35 /Mtr.
M50-DI04-C2NPO	4	Plenum Orange	TLC	1.15 /Mtr.	M50-DI12-C2NPO	12	Plenum Orange	TLC	2.65 /Mtr.
M50-DI06-C2NRO	6	Riser Orange	TLC	1.20 /Mtr.	M50-DI24-C2NRO	24	Riser Orange	TLC	4.75 /Mtr.
M50-DI06-C2NPO	6	Plenum Orange	TLC	1.35 /Mtr.	M50-DI24-C2NPO	24	Plenum Orange	TLC	5.40 /Mtr.

50/125µm - OM3 MULTIMODE - 10 Gig
Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M50-DI02-CGNRA	2	Riser Aqua	TLC	69¢ /Mtr.	M50-DI06-CGNPA	6	Plenum Aqua	TLC	$1.75 /Mtr.
M50-DI02-CGNPA	2	Plenum Aqua	TLC	85¢ /Mtr.	M50-DI12-CGNRA	12	Riser Aqua	TLC	3.15 /Mtr.
M50-DI04-CGNRA	4	Riser Aqua	TLC	$1.30 /Mtr.	M50-DI12-CGNPA	12	Plenum Aqua	TLC	3.45 /Mtr.
M50-DI04-CGNPA	4	Plenum Aqua	TLC	1.40 /Mtr.	M50-DI24-CGNRA	24	Riser Aqua	TLC	6.25 /Mtr.
M50-DI06-CGNRA	6	Riser Aqua	TLC	1.55 /Mtr.	M50-DI24-CGNPA	24	Plenum Aqua	TLC	6.90 /Mtr.

50/125µm - OM4 MULTIMODE - 10 Gig
Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M50-DI06-C4NRA	6	Riser Aqua	TLC	$2.80 /Mtr.	M50-DI12-C4NRA	12	Riser Aqua	TLC	$5.60/Mtr.
M50-DI06-C4NPA	6	Plenum Aqua	TLC	2.95 /Mtr.	M50-DI12-C4NPA	12	Plenum Aqua	TLC	5.90/Mtr.
M50-DI06-C4NRM	6	Riser Magneta	TLC	2.80 /Mtr.	M50-DI12-C4NRM	12	Riser Magneta	TLC	5.60/Mtr.
M50-DI06-C4NPM	6	Plenum Magneta	TLC	2.95 /Mtr.	M50-DI12-C4NPM	12	Plenum Magneta	TLC	5.90/Mtr.

TLC MICRO-DISTRIBUTION INDOOR CABLE

FIS is proud to offer their line of Micro-Distribution Cables for the Data Center market. These cables are offered in Riser, Plenum or LSZH. They are available in OS2 Singlemode, OM1 62.5µm Multimode, OM2 50µm Multimode or OM3 50µm Multimode and OM4 50µm Multimode. Numbered sub units available in 6 and 12 fiber counts.

9/125µm - OS2 SINGLEMODE
Corning® SMF-28e+® fiber

PART #	FIBER COUNT	DESCRIPTION	PRICE
S09-MD12-CNRY	12	Yellow Riser	$1.10 / Mtr.
S09-MD12-CNPY	12	Yellow Plenum	1.40 / Mtr.
S09-MD24-CNRY	24	Yellow Riser	2.30 / Mtr.
S09-MD24-CNPY	24	Yellow Plenum	2.55 / Mtr.
*S09-MD48-CNRY4TY	48	Yellow Riser	3.50 / Mtr.
*S09-MD48-CNPY4TY	48	Yellow Plenum	3.70 / Mtr.
*S09-MD72-CNRY6TY	72	Yellow Riser	4.10 / Mtr.
*S09-MD72-CNPY6TY	72	Yellow Plenum	4.40 / Mtr.

50/125µm - OM3 MULTIMODE
Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION	PRICE
M50-MD12-CGNRA	12	Aqua Riser	$2.70 / Mtr.
M50-MD12-CGNPA	12	Aqua Plenum	2.80 / Mtr.
M50-MD24-CGNRA	24	Aqua Riser	5.45 / Mtr.
M50-MD24-CGNPA	24	Aqua Plenum	5.55 / Mtr.
*M50-MD36-CGNRA3TA	36	Aqua Riser	8.15 / Mtr.
*M50-MD36-CGNPA3TA	36	Aqua Plenum	8.25 / Mtr.
*M50-MD48-CGNRA4TA	48	Aqua Riser	10.90 / Mtr.
*M50-MD48-CGNPAR4TA	48	Aqua Plenum	11.10 / Mtr.
*M50-MD72-CGNRA6TA	72	Aqua Riser	16.30 / Mtr.
*M50-MD72-CGNPA6TA	72	Aqua Plenum	16.50 / Mtr.

9/125µm - BEND OPTIMIZED SINGLEMODE
Corning® ClearCurve® XB fiber

PART #	FIBER COUNT	DESCRIPTION	PRICE
S09-MD12-CBNRY	12	Yellow Riser	$1.20 / Mtr.
S09-MD12-CBNPY	12	Yellow Plenum	1.50 / Mtr.
*S09-MD24-CBNRY2TY	24	Yellow Riser	2.50 / Mtr.
*S09-MD24-CBNPY2TY	24	Yellow Plenum	2.70 / Mtr.
*S09-MD48-CBNRY4TY	48	Yellow Riser	3.95 / Mtr.
*S09-MD48-CBNPY4TY	48	Yellow Plenum	4.30 / Mtr.

*Indicates all buffers are colored Yellow

50/125µm - OM4 MULTIMODE
Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION	PRICE
M50-MD12-C4NRA	12	Aqua Riser	$4.90 / Mtr.
M50-MD12-C4NPA	12	Aqua Plenum	5.35 / Mtr.
*M50-MD24-C4NRA2TA	24	Aqua Riser	10.35 / Mtr.
*M50-MD24-C4NPA2TA	24	Aqua Plenum	10.75 / Mtr.
*M50-MD48-C4NRA4TA	48	Aqua Riser	20.80 / Mtr.
*M50-MD48-C4NPA4TA	48	Aqua Plenum	21.25 / Mtr.

*Indicates all buffers are colored Aqua

plus CORNING®
ClearCurve® Optical Fiber

Fan-Out Kits See Pg. 77

INDOOR/OUTDOOR CABLE

FIS offers indoor/outdoor cable in a distribution construction in both Riser and Plenum. These cables are flexible, easy to handle and simple to install. Since they do not use gel, the connectors can be terminated directly onto the 900µm fiber without breakout kits. This provides an easy and overall less expensive installation.

Note: When used in a burial application this cable must be placed in a conduit or innerduct and is not recommended for lashing applications.

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
SINGLEMODE 9/125µm Corning® SMF-28e+® fiber				
S09-IO06-CNRBL	6	Riser SM 9/125µm - OS2	TLC	80¢ /Mtr.
S09-IO12-CNRBL	12	Riser SM 9/125µm - OS2	TLC	$1.60 /Mtr.
S09-IO24-CNRBL	24	Riser SM 9/125µm - OS2	TLC	3.65 /Mtr.
S09-IO06-CNPBL	6	Plenum SM 9/125µm - OS2	TLC	90¢ /Mtr.
S09-IO12-CNPBL	12	Plenum SM 9/125µm - OS2	TLC	1.75 /Mtr.
MULTIMODE 50/125µm Corning® ClearCurve® OM3 fiber				
M50-IO02-CGNRBL	2	Riser 50/125 10 Gig MM – OM3	TLC	80¢ /Mtr.
M50-IO04-CGNRBL	4	Riser 50/125 10 Gig MM – OM3	TLC	$1.35 /Mtr.
M50-IO06-CGNRBL	6	Riser 50/125 10 Gig MM – OM3	TLC	1.60 /Mtr.
M50-IO12-CGNRBL	12	Riser 50/125 10 Gig MM – OM3	TLC	3.00 /Mtr.
M50-IO24-CGNRBL	24	Riser 50/125 10 Gig MM – OM3	TLC	6.50 /Mtr.
M50-IO06-CGNPBL	6	Plenum 50/125 10 Gig MM – OM3	TLC	1.80 /Mtr.
M50-IO12-CGNPBL	12	Plenum 50/125 10 Gig MM – OM3	TLC	3.55 /Mtr.
M50-IO24-CGNPBL	24	Plenum 50/125 10 Gig MM – OM3	TLC	6.95 /Mtr.
MULTIMODE 50/125µm Corning® ClearCurve® OM4 fiber				
M50-IO06-C4NRBL	6	Riser 50/125 10 Gig MM – OM4	TLC	$2.90 /Mtr.
M50-IO06-C4NPBL	6	Plenum 50/125 10 Gig MM – OM4	TLC	3.25 /Mtr.
M50-IO12-C4NRBL	12	Riser 50/125 10 Gig MM – OM4	TLC	5.95 /Mtr.
M50-IO12-C4NPBL	12	Plenum 50/125 10 Gig MM – OM4	TLC	6.50 /Mtr.

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
SINGLEMODE 9/125µm Corning® ClearCurve® XB fiber				
S09-IO04-CBNRBL	4	Riser SM 9/125µm - XB fiber	TLC	70¢ /Mtr.
S09-IO04-CBNPBL	4	Plenum SM 9/125µm - XB fiber	TLC	75¢ /Mtr.
S09-IO06-CBNRBL	6	Riser SM 9/125µm - XB fiber	TLC	85¢ /Mtr.
S09-IO06-CBNPBL	6	Plenum SM 9/125µm - XB fiber	TLC	95¢ /Mtr.
S09-IO12-CBNRBL	12	Riser SM 9/125µm - XB fiber	TLC	$1.65 /Mtr.
S09-IO12-CBNPBL	12	Plenum SM 9/125µm - XB fiber	TLC	$1.80 /Mtr.
MULTIMODE 62.5/125µm InfiniCor® 300 fiber				
M62-IO02-C3NRBL	2	Riser MM 62.5/125µm - OM1	TLC	70¢ /Mtr.
M62-IO04-C3NRBL	4	Riser MM 62.5/125µm - OM1	TLC	$1.10 /Mtr.
M62-IO06-C3NRBL	6	Riser MM 62.5/125µm - OM1	TLC	1.25 /Mtr.
M62-IO12-C3NRBL	12	Riser MM 62.5/125µm - OM1	TLC	2.40 /Mtr.
M62-IO24-C3NRBL	24	Riser MM 62.5/125µm - OM1	TLC	5.50 /Mtr.
M62-IO02-C3NPBL	2	Plenum MM 62.5/125µm - OM1	TLC	80¢ /Mtr.
M62-IO04-C3NPBL	4	Plenum MM 62.5/125µm - OM1	TLC	$1.30 /Mtr.
M62-IO06-C3NPBL	6	Plenum MM 62.5/125µm - OM1	TLC	1.60 /Mtr.
M62-IO12-C3NPBL	12	Plenum MM 62.5/125µm - OM1	TLC	3.00 /Mtr.
M62-IO24-C3NPBL	24	Plenum MM 62.5/125µm - OM1	TLC	6.00 /Mtr.
MULTIMODE 50/125µm Corning® ClearCurve® OM2 fiber				
M50-IO02-C2NRBL	2	Riser 50/125µm MM - OM2	TLC	70¢ /Mtr.
M50-IO06-C2NRBL	6	Riser 50/125µm MM - OM2	TLC	$1.25 /Mtr.
M50-IO12-C2NRBL	12	Riser 50/125µm MM - OM2	TLC	2.40 /Mtr.
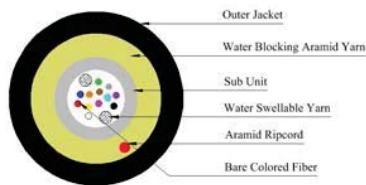
TLC DRY CENTRAL TUBE CABLE

TLC outside plant (OSP) fiber optic cables are of a rugged construction designed to withstand the harsh environment associated with outside installation and operation. The black PE jacket protects against harsh UV rays and water conditions. TLC's exclusive dry block technology allows these cables to be fully protected in the event of water penetration and with no gel, these cables are extremely quick and easy to terminate in the field. Note: When used in burial applications this cable must be placed in a conduit or innerduct and is not recommended for lashing applications.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
S09-CL06-CPEBL	6	SM 9/125µm - OS2	8mm	.90¢ /Mtr.
S09-CL12-CPEBL	12	SM 9/125µm -OS2	8mm	$1.10 /Mtr.
M62-CL06-C3PEBL	6	MM 62.5/125µm - OM1	8mm	1.40 /Mtr.
M62-CL12-C3PEBL	12	MM 62.5/125µm - OM1	8mm	1.90 /Mtr.
M62-CL24-C3PEBL	24	MM 62.5/125µm - OM1	8mm	2.95 /Mtr.

MOHAWK CENTRAL LOOSE TUBE OSP CABLE

Mohawk Central Loose Tube OSP cable features the long-term, field-proven reliability of conventional polyethylene outdoor unitized surrounded by gel for moisture resistance. Recommended applications include building interconnections and data trunk, long haul networking and applications requiring good ozone, moisture and weather resistance. Other fiber counts and types available.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
M9W152	6	SM 9/125µm - OS2	8.26mm	$1.05 /Mtr.
M9W155	12	SM 9/125µm - OS2	8.26mm	1.25 /Mtr.
M9B152	6	MM 62.5/125µm - OM1	8.26mm	1.75 /Mtr.
M9B155	12	MM 62.5/125µm - OM1	8.26mm	2.60 /Mtr.
M9B500T	24	MM 62.5/125µm - OM1	9.65mm	4.85 /Mtr.
M9A152	6	MM 50/125µm - OM2	8.26mm	1.50 /Mtr.
M9A155	12	MM 50/125µm - OM2	9.26mm	2.20 /Mtr.
M9C152	6	MM 50/125µm - OM3	8.26mm	2.50 /Mtr.
M9C155	12	MM 50/125µm - OM3	9.65mm	4.00 /Mtr.

MOHAWK ARMORED CENTRAL LOOSE TUBE OSP CABLE

Mohawk Armored Central Tube OSP cable offers rodent protection and direct burial for outdoor applications. Cable features: surrounded by gel for moisture resistance, corrugated steel tape and a polyethylene jacket for weather and UV protection. Other fiber counts and types available.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
M9W172	6	SM 9/125µm - OS2	13.5mm	$1.50 /Mtr.
M9W175	12	SM 9/125µm - OS2	13.5mm	1.70 /Mtr.
M9B172	6	MM 62.5/125µm - OM1	13.5mm	2.25 /Mtr.
M9B175	12	MM 62.5/125µm - OM1	13.5mm	3.00 /Mtr.
M9A172	6	MM 50/125µm - OM2	13.5mm	1.85 /Mtr.
M9A175	12	MM 50/125µm - OM2	13.5mm	2.50 /Mtr.
M9C172	6	MM 50/125µm - OM3	13.5mm	3.05 /Mtr.
M9C175	12	MM 50/125µm - OM3	13.5mm	4.45 /Mtr.
M9C500T	24	MM 50/125µm - OM3	13.5mm	8.02 /Mtr.

MOHAWK ARMORLITE INDUSTRIAL ARMORED CABLES

ArmorLite Heavy Duty Interlock Armor Cables offer a ruggedized cable construction that affords superior protection in adverse environments yet can also be installed in general purpose, rise and plenum environments. They offer protection from crushing, cutting and rodents. ArmorLite cables are also a lower-cost alternative to traditional installations utilizing innerduct for protection.

PART #	FIBER COUNT	DESCRIPTION	PRICE
M9W240	6	SM Armorlite Plenum Yellow	$4.25 /Mtr.
M9W241	12	SM Armorlite Plenum Yellow	5.50 /Mtr.
M9B240	6	MM 62.5µm OM1 Armorlite Plenum Orange	5.00 /Mtr.
M9B241	12	MM 62.5µm OM1 Armorlite Plenum Orange	6.50 /Mtr.
M9C240	6	MM 50µm OM3 Distribution Armored Plenum Aqua	5.10 /Mtr.
M9C241	12	MM 50µm OM3 Armorlite Plenum Aqua	8.00 /Mtr.
M9C242	24	MM 50µm OM3 Armorlite Plenum Aqua	14.50 /Mtr.

AFL ARMORED TIGHT BUFFERED DISTRIBUTION CABLE

AFL Armored Tight Buffered Circular Premise Cables incorporate 4 to 144 fiber count in a ETL listed, Flame Retardant Jacketed Aluminum. The Interlocking Armor provides the best balance of Ruggedness, Flexibility, and Low Weight. Not Recommended for Direct Burial.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
CP006-9441001-AIAP	6	SM 9/125µm Plenum	12.2mm	$3.30 /Mtr.
CP012-9551001-AIAP	12	SM 9/125µm Plenum	13.5mm	3.65 /Mtr.
CP006-6441001-AIAP	6	MM 62.5/125µm GIGA-Link 300 Plenum	12.2mm	3.70 /Mtr.
CP012-6551001-AIAP	12	MM 62.5/125µm GIGA-Link 300 Plenum	13.5mm	4.65 /Mtr.
CR006-L441C01-AIAR	6	MM OM3 50µm Laser-Link 300 for Gigabit Riser	12.2mm	3.65 /Mtr.
CR012-L551C01-AIAR	12	MM OM3 50µm Laser-Link 300 for Gigabit Riser	13.5mm	4.55 /Mtr.
CP006-L441C01-AIAP	6	MM OM3 50µm Laser-Link 300 for Gigabit Plenum	12.2mm	3.98 /Mtr.
CP012-L551C01-AIAP	12	MM OM3 50µm Laser-Link 300 for Gigabit Plenum	13.5mm	5.45 /Mtr.
CP024-L841C01-AIAP	24	MM OM3 50µm Laser-Link 300 for Gigabit Plenum	16.5mm	10.50 /Mtr.

Cable

1.800.5000.FISC347]

TIGHT-BUFFERED ARMORED CABLE

Armored cable can be used for rodent protection in direct burial if required. This cable is non-gel filled and can also be used in aerial applications. The armor can be removed leaving the inner cable suitable for any indoor/outdoor use. (Temperature rating -40ºC to +85ºC) Additional configurations available.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
FS09-AR06-LRB	6	SM 9/125µm	11mm	$2.00 /Mtr.
FS09-AR12-LRB	12	SM 9/125µm	12mm	2.90 /Mtr.

AERIAL CABLE/SELF-SUPPORTING

Aerial cable provides ease of installation and reduces time and cost. Figure 8 cable can easily be separated between the fiber and the messenger. Temperature range -55ºC to +85ºC. Additional configurations available.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
AR04TB	4	MM 62.5/125µm	5.0mm	$3.95 /Mtr.
AR06TB	6	MM 62.5/125µm	6.0mm	4.70 /Mtr.

TLC INDOOR/OUTDOOR BREAKOUT CABLE

TLC indoor/outdoor rated breakout style cable is easy to install and simple to terminate without the need for fanout kits. These rugged cables are OFNR rated so they can be used indoors, while also having a -40ºC to +85ºC operating temperature range and the benefits of fungus, water and UV protection making them perfect for outdoor applications.

PART #	FIBER COUNT	DESCRIPTION	PRICE
S09-BK06-IOR	6	SM 9/125µm - OS2	$2.85 /Mtr.
S09-BK12-IOR	12	SM 9/125µm - OS2	6.25 /Mtr.
M62-BK06-IOR	6	MM 62.5/125µm - OM1	3.75 /Mtr.
M62-BK12-IOR	12	MM 62.5/125µm - OM1	7.60 /Mtr.

TLC GEL FREE INDOOR/OUTDOOR CABLE

This cable has no gel fill to complicate the connectorization process. Instead, water swellable yarn replaces the gel. Each tube contains colored bare fibers, making your installation simple and fast. Available in 2 to 72 fibers. Fiber counts 2-12 are in one subunit and larger fiber counts are in seperate subunits in multiples of 12. Jackets are available in Riser and Plenum. The FIS Fan Out Kits are a perfect match with this cable.

PART #	FIBER COUNT	DESCRIPTION	PRICE
S09-DL06-CNRBL	6	SM 9/125µm Riser PVC Black	70¢ /Mtr.
S09-DL12-CNRBL	12	SM 9/125µm Riser PVC Black	85¢ /Mtr.
S09-DL24-CNRBL	24	SM 9/125µm Riser PVC Black	$1.19 /Mtr.
S09-DL72-CNRBL	72	SM 9/125µm Riser PVC Black	2.35 /Mtr.
M50-DL06-CGNRBL	6	MM 50/125µm - OM3 Riser PVC Black	1.65 /Mtr.
M50-DL12-CGNRBL	12	MM 50/125µm - OM3 Riser PVC Black	2.75 /Mtr.

Corning® CABLE SYSTEMS FREEDM® LST™ CABLE

Corning® Cable Systems FREEDM® LST™ cables are OFNR-rated, UV-resistant, fully water blocked indoor/outdoor cables. This Gel-free design is fully water blocked using water swellable yarns, making cable access and use of buffer tube fan-out kits simple. Available in 62.5µm, 50µm, singlemode and hybrid versions.

PART #	FIBER COUNT	DESCRIPTION	PRICE
012ESF-T4101A20	12	SM 9/125µm	$1.35 /Mtr.
006KSF-T4130D20	6	MM 62.5/125µm	2.80 /Mtr.
012KSF-T4130D20	12	MM 62.5/125µm	4.70 /Mtr.

COMMSCOPE OSP DROP CABLE

FIS carries CommScope armored outside plant cable. The cable is for buried, underground and aerial applications. It uses Arid-Core® water blocking technology that helps to protect fibers from moisture and reduces termination effort. The medium density polyethylene jacket is rugged, durable and easy to strip. This is the same cable used to construct the FIS Node Cables.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
0006DA8WF06NS/BP	6	Central LT Armored SM with ripcord	8.1mm	$1.00/mtr
0012DA8WF12NS/BP	12	Central LT Armored SM with Ripcord	8.1mm	1.25/mtr

Labels on image: MDPE Outer Jacket / Steel Armor / Fiberglass Strength Elements / Ripcord (2) / Aramid Strength Elements / 3.0 mm Buffer Tube / Gel / 250 micron Fibers
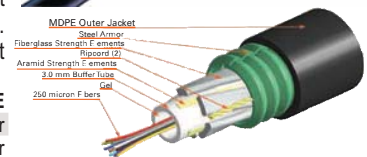
AFL Mini-Span® ADSS CABLE

AFL Mini-Span® All-Dielectric Self-Supporting (ADSS) cable is designed for outside plant aerial and duct applications in local and campus network loop architectures. A separate messenger support wire hanging system is not required, greatly reducing installation time and improving upfront and maintenance labor costs. Mini-Span® single-mode and laser-optimized multimode fibers are available.

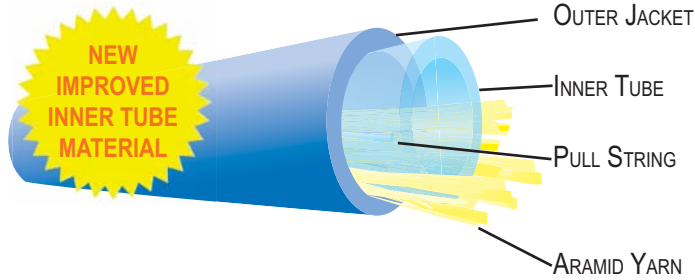| PART #	FIBER COUNT	DESCRIPTION	PRICE
AE-00696C520-AA4	6	SM Mini-Span® 424	$1.75 /Mtr.
AE-0129C520-AA4	12	SM Mini-Span® 424	1.95 /Mtr.
AE-0249C520-AA4	24	SM Mini-Span® 424	2.20 /Mtr.
AE-489C520-AA4	48	SM Mini-Span® 424	3.75 /Mtr.
AE-0729C820-EA7	72	SM Mini-Span® 535	5.25 /Mtr.
AE-1449CC20-EA0	144	SM Mini-Span® 693	8.25 /Mtr.
AE-0066C520-AA4	6	62.5/125µm MM Mini-Span® 424	1.80 /Mtr.
AE-0126C520-AA4	12	62.5/125µm MM Mini-Span® 424	2.95 /Mtr.
AE-0246C520-AA4	24	62.5/125µm MM Mini-Span® 424	5.65 /Mtr.

NEW

Corning® CABLE SYSTEMS DROP CABLES

SST-Drop™ Cables offer the ease of installation of standard ALTOS® cable in an easy-access stranded single-tube (SST) design. Intended for FTTH networks, bridging the space between distribution network and subscriber premise.
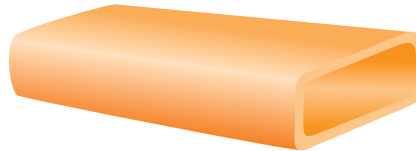
PART #	FIBER COUNT	DESCRIPTION	PRICE
001-EB4-14101A20	1	SM 9/125µm SST Drop™ Cable	50¢ /Mtr.
002-EB4-14101A20	2	SM 9/125µm SST Drop™ Cable	60¢ /Mtr.
004-EB4-14101A20	4	SM 9/125µm SST Drop™ Cable	65¢ /Mtr.

Labels on image: PE Outer Jacket / Fibers / Buffer Tube / Dielectric Strength Member / Water Swellable Fiber Glass

FURCATION TUBE

OUTER JACKET

INNER TUBE

PULL STRING

ARAMID YARN

OTHER COLORS AVAILABLE

B Blue	**O** Orange	**G** Green	**BR** Brown
S Slate	**W** White	**R** Red	**BL** Black
Y Yellow	**V** Violet	**RO** Rose	**A** Aqua
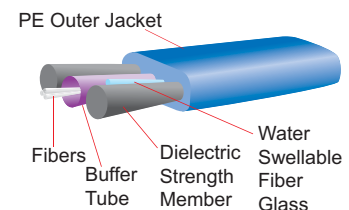
Cable

Key Features Include:

- Designed to terminate to a wide range of connector styles.
- Accommodates bare or tight buffered fibers.
- Provides durable fiber protection and emulates standard simplex and duplex cable.
- Consists of an inner tube surrounded by aramid fibers and a PVC jacket.
- 12 standard colors for easy identification.

RIBBON FURCATION TUBE

FIS offers ribbon furcation tubing for protection of bare ribbon fibers. Standard size fits fiber counts of 4, 6, 8 and 12 fibers. There is no inner tube or strength member.

PART #	DESCRIPTION	PRICE
F00-FRRB-NRO	Orange	75¢ /Mtr.
F00-FRRB-NRY	Yellow	75¢ /Mtr.
F00-FRRB-NRA	Aqua	75¢ /Mtr.

900µm FURCATION TUBE
(ACCEPTS 250µm)

This 900µm furcation tube accepts 250µm diameter coated fiber. Standard material is Hytrel and other colors are available.

PART #	DESCRIPTION	PRICE
F00-FR900R-CLEAR	Clear	50¢ /Mtr.
F00-FR900-HN	Opaque	50¢ /Mtr.
F00-FR900-HW	White	50¢ /Mtr.
F00-FR900-HY	Yellow	50¢ /Mtr.
F00-FR900-HO	Orange	50¢ /Mtr.
F00-FR900-HA	Aqua	50¢ /Mtr.
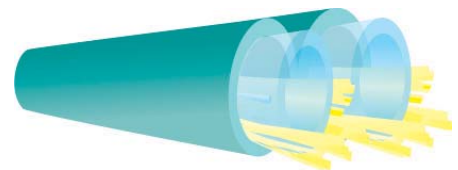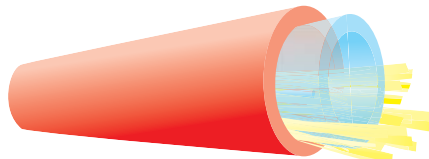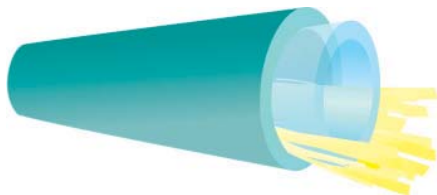
2.0mm FURCATION TUBE
(ACCEPTS 250µm)

Our 2.0mm furcation tubing has an inner tube surrounded by aramid fibers. The inner tube accepts 250µm bare fiber. Other colors available.

PART #	DESCRIPTION	PRICE
F00-FR2NUO-900	Orange	50¢ /Mtr.
F00-FR2NUY-900	Yellow	50¢ /Mtr.
F00-FR2NUA-900	Aqua	50¢ /Mtr.

2.0mm FURCATION TUBE
(ACCEPTS 900µm)

Our 2.0mm furcation tubing has an inner tube surrounded by aramid fibers. The inner tube diameter is 1.5mm(OD) and accepts 900µm tight buffer. Other colors available.

PART #	DESCRIPTION	PRICE
F00-FR2-NUO	Orange	50¢ /Mtr.
F00-FR2-NUY	Yellow	50¢ /Mtr.
F00-FR2-NUR	Red	50¢ /Mtr.
F00-FR2-NRB	Blue	50¢ /Mtr.
F00-FR2-NUG	Green	50¢ /Mtr.
F00-FR2-NUA	Aqua	50¢ /Mtr.

2.0mm DUPLEX FURCATION TUBE
(ACCEPTS 250µm)

TLC 2.0mm duplex furcation tubing consists of an inner tube surrounded by aramid fibers, and a PVC jacket sized for the industry standard connectors. The duplex design allows for professional termination of connector pairs.

PART #	DESCRIPTION	PRICE
F00-FDX2-NUO	Orange	75¢ /Mtr.
F00-FDX2-NUY	Yellow	75¢ /Mtr.
F00-FDX2-NUA	Aqua	75¢ /Mtr.
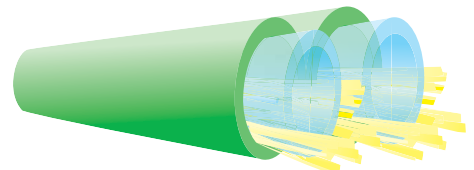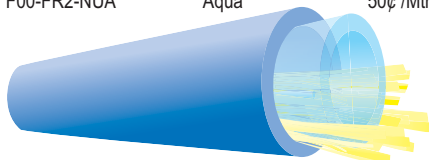
3.0mm FURCATION TUBE
(ACCEPTS 250µm)

Our 3.0mm furcation tube has an inner hollow tube with a pull string and will receive a 250µm buffered fiber. Includes aramid yarn strength member. Other colors available.

PART #	DESCRIPTION	PRICE
F00-FR3NUY-900	Yellow	50¢ /Mtr.
F00-FR3NUO-900	Orange	50¢ /Mtr.
F00-FR3NUA-900	Aqua	50¢ /Mtr.

3.0mm FURCATION TUBE
(ACCEPTS 900µm)

The same tube found in FIS Universal Breakout Kits may now be purchased separately. The inner hollow tube will receive up to a 900µm buffered fiber. Includes aramid yarn strength member. Other colors available.

PART #	DESCRIPTION	PRICE
F00-FR3-NUO	Orange	50¢ /Mtr.
F00-FR3-NUY	Yellow	50¢ /Mtr.
F00-FR3-NUR	Red	50¢ /Mtr.
F00-FR3-NUB	Blue	50¢ /Mtr.
F00-FR3-NUG	Green	50¢ /Mtr.
F00-FR3-NUA	Aqua	50¢ /Mtr.

3.0mm DUPLEX FURCATION TUBE
(ACCEPTS 900µm)

TLC 3.0mm duplex furcation tubing consists of an inner tube surrounded by aramid fibers, and a PVC jacket sized for the industry standard connectors. The duplex design allows for professional termination of connector pairs. For 900µm Buffers.

PART #	DESCRIPTION	PRICE
F00-FDX3-NUO	Orange	75¢ /Mtr.
F00-FDX3-NUY	Yellow	75¢ /Mtr.
F00-FDX3-NUG	Green	75¢ /Mtr.
F00-FDX3-NUA	Aqua	75¢ /Mtr.

BUFFER TUBE/RIBBON FAN-OUT KITS

CORNING

CCS BUFFER TUBE FAN-OUT KITS

CCS Indoor and Outdoor Buffer Tube Fan-Out Kits provide the ultimate solution for the field installation of connectors for the termination of 6- and 12-fiber buffer tubes. Ideal for indoor or outdoor crossconnects, these kits provide the most compact, easy-to install fan-out solution. The compact design requires no additional hardware. The 900µm fan-out assembly is color coded to match the fiber color scheme and is available in 6- or 12-fiber units in lengths of 25, 36 or 47 inches. For instructions: http://www.corning.com/cablesystems/

PART #	DESCRIPTION	PRICE
FAN-BT25-06	6 Fiber (25" Tubing)	$14.25
FAN-BT36-06	6 Fiber (36" Tubing)	14.50
FAN-BT25-12	12 Fiber (25" Tubing)	16.30
FAN-BT36-12	12 Fiber (36" Tubing)	16.95

FIS BUFFER TUBE/RIBBON FAN-OUT KITS

FIS Fan-Out Kits are designed for a simple and easy breakout from standard Buffer Tubes or Ribbon Cables. The kits are pre-configured for 4,6 and 12 fiber applications with 25" and 36" lengths of 900µm Hytrel tubing in the appropriate industry-standard color code. FIS Fan-Out Kits have a unique snap-together design that offers the ability to unsnap the unit for reentry if necessary. Each kit comes with the adapters that accommodate round cable configurations, such as Buffer Tubes and Ribbon Cables. This cost-saving feature allows you to cover your application possibilities with just one style.

PART #	DESCRIPTION	PRICE
F1-BF0425M	4 Fiber (25" Tubing) Accepts 250µm	$9.75
F1-BF0625M	6 Fiber (25" Tubing) Accepts 250µm	10.50
F1-BF1225M	12 Fiber (25" Tubing) Accepts 250µm	11.75
F1-BF0436M	4 Fiber (36" Tubing) Accepts 250µm	10.50
F1-BF0636M	6 Fiber (36" Tubing) Accepts 250µm	11.75
F1-BF1236M	12 Fiber (36" Tubing) Accepts 250µm	12.75

BREAKOUT KITS

NEW Easy Slide Buffer Tubes

CORNING

CCS SPIDER FAN-OUT KITS

Corning® Cable Systems' Spider Fan-Out Kits are designed for both factory or field terminations of distribution or loose tube cables from 4 to 24 fibers. The fan-out tubing provides three layers of protection consisting of a Teflon inner tube, a dielectric strength member and an outer protective PVC jacket. For instructions: http://www.corning.com/cablesystems/

PART #	DESCRIPTION	PRICE
SFK-P06-250M	6 Fiber accepts 250µm (Orange)	$40.00
SFK-P12-250M	12 Fiber accepts 250µm (Orange)	55.00
SFK-P24-250M	24 Fiber accepts 250µm (Orange)	96.25
SFK-P06-250S	6 Fiber accepts 250µm (Yellow)	45.00
SFK-P12-250S	12 Fiber accepts 250µm (Yellow)	68.00
SFK-P24-250S	24 Fiber accepts 250µm (Yellow)	110.00
SFK-P06-900M	6 Fiber accepts 900µm (Orange)	40.00
SFK-P06-900S	6 Fiber accepts 900µm (Yellow)	40.00

FIS COLOR CODED BREAKOUT KITS

The FIS 2mm and 3mm Breakout Kits are designed for the quick and simple termination of distribution cables. Color coded tubing eliminates the need for marking individual fiber ends, as your cable will be color coded to TIA/EIA standards. Testing and installation time is also reduced. Custom Colors Available.

PART #	DESCRIPTION	PRICE
F1-BOK0640-20M	2mm, 6 Fiber (40" Tubing) Accepts 900µm	$27.00
F1-BOK1240-20M	2mm, 12 Fiber (40" Tubing) Accepts 900µm	31.50
F1-BOK0640MA	2mm, 6 Fiber (40" Tubing) Accepts 900µm - Aqua	27.00
F1-BOK1240MA	2mm, 12 Fiber (40" Tubing) Accepts 900µm - Aqua	31.50
F1-BOK0640M	3mm, 6 Fiber (40" Tubing) Accepts 900µm	27.00
F1-BOK1240M	3mm, 12 Fiber (40" Tubing) Accepts 900µm	31.50
F1-BOK0640M250	3mm, 6 Fiber Colored Coded, **Accepts 250µm - NEW**	27.00
F1-BOK1240M250	3mm 12 Fiber Colored Coded, **Accepts 250µm - NEW**	31.50

RIBBON FAN-OUT KITS

Corning® Cable Systems' Ribbon Fan-Out Kits are specifically designed for the termination of 12-fiber ribbon. Perfect for users who want to field-install connectors. Kits feature a 900µm fan-out assembly that is color-coded to match the industry-standard color code. For instructions: http://www.corning.com/cablesystems/

PART #	DESCRIPTION	PRICE
RIB-FAN-1225	12 Ribbon Fiber (25" Tubing)	$25.00
RIB-FAN-1236	12 Ribbon Fiber Fan-Out kit (36" Tubing)	28.00

FIS UNIVERSAL BREAKOUT KITS

The ability to connectorize loose tube fiber requires the installation of a 3mm jacket over the 250µm coated fiber. The jacket, or furcation tube, contains an inner pull string for easy installation. This low-cost Universal Breakout Kit provides directions and materials to prepare cable ends for connectorization. Kit includes: 25 meters of 3mm furcation tubing, 2 sizes of black shrink tube (13mm and 26mm diameter), 2 gel remover packets, 2 two gram Hysol Epoxy packs, 8 pcs. adhesive shrink tube and 12 pcs. clear shrink tube.

PART #	DESCRIPTION	PRICE
F1-5527	Orange Furcation Tube for Multimode	$39.95
F1-5528	Yellow Furcation Tube for Singlemode	39.95

OVERSIZED SHIPPING FEE MAY APPLY

IN STOCK

INNERDUCT

Fiber Instrument Sales' Innerduct product line consists of corrugated HDPE, riser rated PVC and plenum rated PVDF Innerduct in a variety of colors and sizes. A full line of fittings and accessories that complement the product line are available as well. The plenum and riser product lines are both UL 2024 listed and are among the most flexible flame-rated Innerduct products on the market. The HDPE outside plant products offer high tensile strength while being impervious to abrasion, scouring and root penetration. Innerduct available in 250 and 500 foot coils.

HDPE CORRUGATED INNERDUCT - OUTDOOR RATED

PART #	DESCRIPTION	OUT. DIA.	IN. DIA.	PRICE
F1-14383P250	Single-Wall Orange w/900 lb. Pull Tape	1.35"	1.049"	$125.00/Coil
F1-14383P500	Single-Wall Orange w/900 lb. Pull Tape	1.35"	1.049"	250.00/Coil
F1-14383SP250	Split HDPE Orange	1.35"	1.049"	150.00/Coil
F1-14383SP500	Split HDPE Orange	1.35"	1.049"	295.00/Coil

INDOOR RATED INNERDUCT

PART #	DESCRIPTION	OUT. DIA.	IN. DIA.	PRICE
F1-14363P250	Riser Rated Orange w/900 lb. Pull Tape	1.35"	1.049"	$187.50/Coil
F1-14363P500	Riser Rated Orange w/900 lb. Pull Tape	1.35"	1.049"	375.00/Coil
F1-11437P250	Plenum Rated Orange w/900 lb. Pull Tape	1.35"	1.049"	562.50/Coil
F1-11437P500	Plenum Rated Orange w/900 lb. Pull Tape	1.35"	1.049"	1,125.00/Coil

INNERDUCT COUPLERS

Innerduct Couplers

PART #	DESCRIPTION	PRICE
F1-CP83BLK	1" PE Snap Coupling	65¢
F1-CP23	1" Riser Rated Snap Coupling	$1.25
F1-CP53	1" Plenum Rated Snap Coupling	2.40

Innerduct Cutters

HDPE / PVC INNERDUCT CUTTERS

PART #	DESCRIPTION	PRICE
F1-IC03	Innerduct Cutters - Will Cut Diameters 1/2" to 3"	$15.00

TLC PLASTIC FIBER OPTIC CABLE & ACCESSORIES

TLC plastic optical fiber cables are designed for data transmission applications. The standard product is a 2.2mm jacket over 1.0mm step index PMMA plastic fiber. Standard colors are red and black, other colors are available upon request.

PART #	DESCRIPTION	DIA.	PRICE
P96TB01TRBL22	960/1000µm Core Simplex Plastic Fiber (Black)	2.2mm	45¢ /Mtr.
P96TD02TRBL44	960/1000µm Core Duplex Plastic Fiber (Black)	2.2/4.5mm	95¢ /Mtr.
POF-KIT	Plastic Fiber Optic Tool Kit		$117.35
NN044	No-Nik Wire Stripper .044		28.45
POF-HKN	Hot Knife for Cutting Plastic Fiber of all Diameters		17.50
F1-0065	ST Connector 1mm Stainless Alloy Ferrule for Plastic Fiber		3.25

P96TB01TRBL22

NEW

ROSIN BAG

FIS technicians utilize rosin bags to ease the application of furcation tubing and help remove flooding gels while stripping. The rosin bags are used to dry wet surfaces making furcation quicker and easier. Rosin bags are available in 3 packs only.

PART #	DESCRIPTION	PRICE
F1-9795-3	3 Rosin Bags per pack	$7.50

F1-9795-3
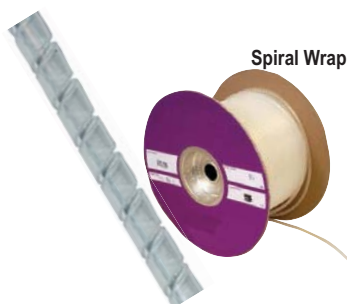
Spiral Wrap

SPIRAL WRAP

PART #	DESCRIPTION	PRICE
HT316N	Nylon Spiral Cut Tubing 3/16"	$1.49/mtr

CONNECTIVITY

FIS has once again responded to customer requests. We are now providing epoxy in Bulk 50 piece packaging. Use it along with your Bulk Connectors.

- Less expensive
- Less packaging waste
- Ease of use

1.800.5000.FIS • 315.736.2206 • fax: 315.736.2285

fis
FIBER INSTRUMENT SALES, INC.

161 Clear Road • Oriskany, NY 13424 • www.fiberinstrumentsales.com

SATISFACTION GUARANTEED

THE 2 MINUTE CONNECTION
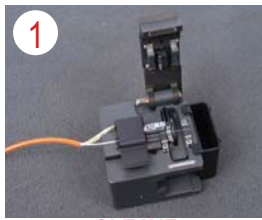
1 CLEAVE

2 LOAD IN HOLDER
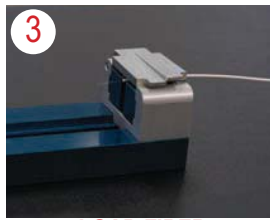
3 LOAD FIBER
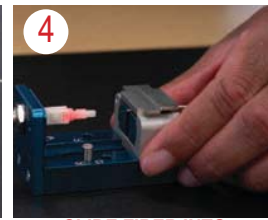
4 SLIDE FIBER INTO CONNECTOR & MAKE CONNECTION
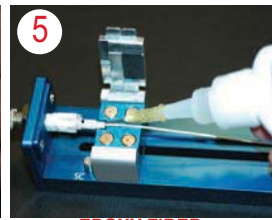
5 EPOXY FIBER INTO PLACE

Improved Performance Request Free Sample!

ST   SC   LC

FIS BOBTAIL™ NO-POLISH CONNECTOR

FIS Bobtail Connectors provide a pre-polished, quick termination style connector for an industry leading value. Bobtail's are ideal for many applications including but not limited to local area networks, restoration work, testing applications, and laboratory settings. The open epoxy canal allows application of Crazy Glue, Super Glue or any Cyanoacrylate adhesives. As always, your satisfaction is guaranteed or return the connectors to FIS for a complete refund.

PART #	DESCRIPTION	BOOT SIZE	PRICE
F1-0066-BT	Bobtail ST Pre-polished Connector - 62.5µm (OM1)	900µm	$4.95
F1-006650-BT	Bobtail ST Pre-polished Connector - 50µm (OM2)	900µm	4.95
F1-0069-BT	Bobtail ST Pre-polished Connector - Singlemode	900µm	5.95
F1-5066-BT	Bobtail LC Pre-polished Connector - 62.5µm (OM1)	900µm	5.95
F1-506650-BT	Bobtail LC Pre-polished Connector - 50µm (OM2)	900µm	5.95
F1-5069-BT	Bobtail LC Pre-polished Connector - Singlemode	900µm	6.95
F1-3066-BT	Bobtail SC Pre-polished Connector - 62.5µm (OM1)	900µm	4.95
F1-306650-BT	Bobtail SC Pre-polished Connector - 50µm (OM2)	900µm	4.95
F1-3069-BT	Bobtail SC Pre-polished Connector - Singlemode	900µm	5.95

FIS BOBTAIL™ PULL FORCE (LBS.) VS . COMPETITION

	Connector A (leading competitor)	Connector B (leading competitor)	Bobtail™ Connector
Test #1	.6*	1.7	1.7
Test #2	.5*	1.8	1.3
Test #3	.4	1.8	1.2
Test #4	.5	2.1	1.9
Test #5	1.0*	1.3	2.1
Test #6	.8	1.6	2.3
	.6 lbs. average	1.71 lbs. average	1.75 lbs. average

* Connector broke off fiber

CAUTION:

FIS discourages the use of the Bobtail or any mechanical splice style connector in 10 Gig network systems.

F1-00SUNBTH

FIS UNIVERSAL SLIDING BOBTAIL HOLDER

The new and improved FIS assembly tool is now designed with a precision machined sled to aid in the insertion of the prepared field fiber. This feature virtually eliminates fiber stub breakage and minimizes insertion loss. Includes adapter plates for SC, LC, and ST Bobtail Connectors.

PART #	DESCRIPTION	PRICE
F1-00SUNBTH	FIS Universal Sliding Bobtail Holder	$150.00

F1-STBTMN-KIT

FIS BOBTAIL™ MINI REPAIR KIT

PART #	DESCRIPTION	PRICE
F1-STBTMN-KIT	Mini ST 62.5 Kit w. Stripper, Cleaver, Adhesive & (2) ST Bobtails	$160.00
F1-SCBTMN-KIT	Mini SC 62.5 Kit w. Stripper, Cleaver, Adhesive & (2) SC Bobtails	160.00
F1-LCBTMN-KIT	Mini LC 62.5 Kit w. Stripper, Cleaver, Adhesive & (2) LC Bobtails	160.00

DELUXE BOBTAIL™ INSTALLATION KIT

The Bobtail™ Installation Kit includes all the consumables and tools necessary for field termination of Bobtail™ connectors. When used in conjunction with the optional VFL it allows for active optimization of the connector before epoxy application.

QTY	DESCRIPTION	PART #
1	LYNX Cleaver	F1-LYNX
1	Universal Sliding Bobtail Holding Fixture	F1-00SUNBTH
1	Quickset Adhesive	F1-BTXY
1	Stripping Tool	F1-1301T
1	Dry Wipes	F1-6702
1	4oz. Bottle of Alcohol	F1-0007
1	Connector Cleaner	F1-7020C
6	Syringe Tips	F1-00-TIP
1	Pocket Fault Locator	F1-9000
3	Assorted SM and MM Patchcords	

PART #	DESCRIPTION	PRICE
F1-00UNBTKITSMPFL	Universal Bobtail Kit for both SM & MM	$1,195.00

F1-00UNBTKITSMPFL

Connectivity

UNICAM® PRETIUM™ PRE-POLISHED CONNECTOR & TOOL KIT

The UniCam® Pretium™ Tool Kit can quickly install a UniCam Connector in about 45 seconds. From the cleaver, with its integrated fiber scrap bin and dual-clamp precision hold, to the installation tool with its immediate go/no-go feedback signal, the UniCam® Pretium™ Tool Kit was thoughtfully designed with the needs of network installers in mind.

KIT CONTENTS

DESCRIPTION	PART #
Trash Container	2104498-01
Scissors	100294-01
Black Permanent Marker	2104499-01
Fiber Optic Cleaning Fluid	*
Fiber Wipes	*
Pretium Cleaver	FBC-007
Pretium UniCam Installation Tool	TL-UCP
Cable Jacket Stripping Tool	3206001-01
Dual-Hole Stripping Tool	2104502-01
1.25 mm Ferrule Adapter	VFL-A125
UniCam Crimp Tool	3201007-01
Lanyards (2)	02-002853-001
Cleaning Stick - Size 2.5 mm	*
2.5 mm Ferrule Adapter (w/Installation Tool)	VFL-250

PART#	DESCRIPTION	PRICE
TKT-UNICAM-PFC	Pretium™ Tool Kit	$1,550.00

Note: UniCam Pretium connectors can be terminated using the original TKT-UNICAM kit, however, Pretium performance is not guaranteed.

TKT-UNICAM-PFC

CONNECTORS & ACCESSORIES

PART #	STYLE	TYPE	FERRULE	TYPICAL LOSS	PRICE	PART #	STYLE	TYPE	FERRULE	TYPICAL LOSS	PRICE
95-000-50	ST	MM, 62.5/125µm	Composite	.3dB	$10.00	95-050-41	SC	MM, 50/125µm	Zirconia	.3dB	$13.50
95-050-51	ST	MM, 50/125µm	Zirconia	.3dB	13.50	95-050-41X	SC	MM, OM3 10G	Zirconia	.3dB	13.50
95-000-51	ST	MM, 62.5/125µm	Zirconia	.3dB	13.50	95-000-99	LC	MM, 62.5/125µm	Zirconia	.3dB	13.50
95-200-51	ST	SM, 8.3/125µm	Zirconia	.4dB	15.60	95-050-99	LC	MM, 50/125µm	Zirconia	.3dB	13.50
95-000-41	SC	MM, 62.5/125µm	Zirconia	.3dB	13.50	95-200-99	LC	SM, 8.3/125µm	Zirconia	.3dB	16.45
95-200-41	SC	SM, 8.3/125µm	Zirconia	.4dB	15.60	95-050-99X	LC	MM, OM3 10G	Zirconia	.3dB	13.50
95-000-40	SC	MM, 62.5/125µm	Composite	.3dB	10.00	TL-UC-01	Universal UniCam Installation Tool				385.00

3M™ NO-POLISH CONNECTORS

3M No Polish Connectors enable fast, on-site installation utilizing a one piece, pre-assembled design that eliminates field polishing and loose parts. Install - without electrical power - using a simple field tool.

PART #	DESCRIPTION	PRICE
6800-50	SC Multimode 50µm 250/900µm Buffered Fiber	$10.25
6800-625	SC Multimode 62.5µm 250/900µm Buffered Fiber	10.25
6800-50LOMMF	SC Multimode 50µm OM3 Laser Optimized Fiber 250/900µm Buffered Fiber	10.80
8800	SC Singlemode 250/900µm Buffered Fiber	11.89
8800-APCAS	SC APC Singlemode Angle Splice No Polish Connector	13.65
8800-APCFS	SC APC Singlemode Flat Splice No Polish Connector	13.65
6830-50	LC Multimode 50µm 250/900µm Buffered Fiber	10.50
6830-50LOMMF	LC Multimode 50µm OM3 Laser Optimized Fiber 250/900µm Buffered Fiber	11.00
6830-625	LC Multimode 62.5µm 250/900µm Buffered Fiber	10.50
8830	LC Singlemode 250/900µm Buffered Fiber	15.35
8865	No Polish Connector Kit without Cleaver	225.25
8865-C	No Polish Connector Kit with Cleaver	1,112.50
2565	No Polish Connector Angle Cleave Kit for use with 8800-APCAS (SC APC)	2,780.00
2534	Fiber Cleaver (only)	885.00
8835-AT	LC No Polish Connector Assembly Tool 250/900µm	35.00
8865-AT	No Polish Connector Assembly Tool (only)	35.00

8800

8865-AT

LEVITON FAST-CURE CONNECTORS & TOOL KIT

Obtain the most robust connections using the Leviton FAST-CURE connectors. An anaerobic fiber optic field-installable connector avaiable in ST, SC, and LC styles. Fiber types avaliable are OM3 Multimode, Mulitmode and Singlemode.

PART #	DESCRIPTION	PRICE
49990LDL	LC Simplex, 50µm OM3, for 900µm fiber, Aqua Boot	$5.70
49990LL2	LC Simplex, 50µm OM3, for 3mm fiber, Aqua Boot	5.65
49990MDL	LC Simplex, 50µm or 62µm, for 900µm fiber, Beige Boot	5.85
49990ML2	LC Simplex, 50µm or 62µm, for 3mm fiber, Beige Boot	5.85
49990SL2	LC Simplex, Singlemode, for 3mmµm fiber, Blue Boot	11.80
49990SDL	LC Simplex, Singlemode, for 900µm fiber, Blue Boot	11.80
49990LSC	SC Simplex, 50µm OM3, for 900µm fiber, Aqua Boot	5.95
49990SSC	SC Simplex, Singlemode, for 900µm fiber, Blue Boot	8.65
49990SST	ST Simplex, Singlemode, for 900µm fiber, Blue Boot	7.10
49990MST	ST Simplex, 50µm or 62µm, for 900µm fiber, Beige Boot	4.25
49800FTK	FAST-CURE Termination Kit (Adhesive/Accelerator kit sold separately)	892.00
F1ANAEROBICKIT	FIS Adhesive #7649, Accelerator #680 Kit with syringe tips	50.00

Connectivity

LEVITON

NEW

49991-LSC

49991-SST

49991-5LC

3M

6366

LEVITON FASTCAM CONNECTORS

Field installable connectors from Leviton are designed for applications that require fast network deployment. FASTCAM connectors are prepolished, requiring no polishing or epoxy curing. A precision mechanical termination uses molded V-groove technology to retain and align the fiber. Terminate on 250µm/900µm buffered fiber and/or 2mm or 3mm jacketed cables.

PART #	DESCRIPTION	PRICE
49991-SSC	FastCAM SC Singlemode Connector, Blue Housing	$12.44
49991-LSC	FastCAM SC 50/125µm OM3 10GiG Multimode Connector, Aqua Housing	10.55
49991-MSC	FastCAM SC 62.5/125µm Multimode Connector, Beige Housing	9.98
49991-5SC	FastCAM SC 50/125µm Multimode Connector, Black Housing	9.98
49991-5ST	FastCAM ST 50/125µm Multimode Connector, Black Housing	9.86
49991-SST	FastCAM ST Singlemode Connector, Blue Housing	12.60
49991-MST	FastCAM ST 62.5/125µm Multimode Connector, Beige Housing	9.86
49991-SLC	FastCAM LC Singlemode Connector, Blue Housing	13.38
49991-LLC	FastCAM LC 50/125µm OM3 10GiG Multimode Connector, Aqua Housing	10.71
49991-MLC	FastCAM LC 62.5/125µm Multimode Connector, Beige Housing	10.25
49991-5LC	FastCAM LC 50/125µm Multimode Connector, Black Housing	10.25
49800-MSK	FastCAM Tool Kit with Cleaver	1,095.00

3M™ HOT MELT

3M Hot Melts continue to be a popular choice among installers in the field. The Hot Melt connectors utilize an advanced adhesive technology eliminating the application of epoxy. The connectors provide quick termination in 2 minutes or less and are re-heatable to allow for fiber repositioning.
Fiber polishing required with Hot Melt Connectors.

PART #	DESCRIPTION	PRICE
6366	Hot Melt Kit (120v)	$1,240.00
6362	Hot Melt Kit (220v)	1,325.00

3M™ HOT MELT CONNECTORS

PART #	STYLE	FIBER SIZE	TYPICAL LOSS	TYPE	PRICE
6100	ST	125µm	.2dB	Multimode	$5.25
8100YS	ST	126µm	.2dB	Singlemode	6.25
6200	FC	125µm	.2dB	Multimode	7.30
8200W	FC	126µm	.2dB	Singlemode	8.25
6300W	SC	125µm	.2dB	Multimode	5.25
8300	SC	126µm	.2dB	Singlemode	6.25
6600-S	LC Simplex	125µm	.2dB	MM/900µm Boot	7.00
6601-D	LC Duplex	125µm	.2dB	MM/900µm Boot	14.00
6602-S	LC Simplex	125µm	.2dB	MM/1.6-2mm Boot	7.00
6602-D	LC Duplex	125µm	.2dB	MM/1.6-2mm Boot	14.00
6603-S	LC Simplex	125µm	.2dB	MM/3.0mm Boot	7.00
6603-D	LC Duplex	125µm	.2dB	MM/3.0mm Boot	14.00
8600-S	LC Simplex	126µm	.2dB	SM/900µm Boot	9.00
8602-S	LC Simplex	126µm	.2dB	SM/1.6-2mm Boot	9.35
8603-S	LC Simplex	126µm	.2dB	SM/2.4-3.0mm Boot	9.35

KIT CONTENTS

QTY	DESCRIPTION	QTY	DESCRIPTION
1	120 or 220V Oven	1	Crimp Tool
4	Connector Holders	1	Fiber Scribe
2	Round Polishing Pad	1	View Scope (200x)
2	Soft Polishing Pad	100	Lint-Free Cloths
50	2µm Lapping Film	1	Alcohol Bottle (empty)
10	9µm Diamond Film	1	Water Bottle (empty)
20	0.5µm Final Film	1	Fiber Scrap Can
2	Polishing Jig	1	Roll-Up Pouch
2	Bottle Adhesive	1	Fiber Marking Pen
1	Kevlar Snips	1	Training CD
1	Stripping Tool	1	Instructions (paper)

HOT MELT ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-9110	FIS 6 Port Hot Melt Oven 110V	$296.00
F1-9110220	FIS 6 Port Hot Melt Oven 220V	430.00
F1-9130	FIS 12 Port Hot Melt Oven 110V	345.00
6851E	3M Auto Polish Machine Kit w/110v Converter	1,735.00
661X-0.5S	0.5µm Diamond Lapping Film	5.85
6192A	2µm 5" Polish Film 50 Pack	19.00
6192B	2µm 4" Polish Film for 6850A Polisher (w/hole) 50 per Pack	15.50
6192-AA	Singlemode Final Polish Film for Hot Melts	45¢
6650-LC	LC Hot Melt Expansion Kit (to be used w/Hot Melt 6365 or 6361 kit)	$775.00
6650-LH	LC Hot Melt Holders (4 pk)	225.00

F1-9110

CAUTION HOT

3M

VF-45™

VOL-0563

3M™ VOLITION™ PRODUCTS & SUPPLIES

PART #	DESCRIPTION	PRICE
VOL-0001	VF-45 Socket, Multimode (socket, housing, fiber holder & boot)	$6.80
VOL-0002	VF-45 Socket, Singlemode (socket, housing, fiber holder & boot)	8.15
VOL-0011	VF-45 Socket, Fiber Holder	5.60
VOL-0563	VF-45 Quick Install Kit	1,213.50
VOL-0562J	Cleave Button with Scribe	155.00
VOL-0562K666XW	Lapping Film, 2"x5", 1µm Diamond	4.65
VOL-0573	Maintenance Cleaning Kit	206.75
VOL-0570A	HFE-Based Cleaning Fluid, 16 oz. Bottle (replacement)	35.00

AFL

CS001201

AFL QUICK TERMINATION - FAST CONNECTOR

The FAST Connector Tool Kit provides all necessary installation tools required for fiber preparation of 250/900µm, 2mm and 3mm cordage for AFL's prepolished FAST Connectors. The Kit carrying case contains all industry standard termination tools, installation instructions, as well as adequate storage for carrying extra FAST connectors for on-site convenience.

KIT CONTENTS

QTY	DESCRIPTION	PART #
1	CT-30A Universal Cleaver	S014080
1	Fast SC Assembly Tool	CS007780
1	Fast LC Assembly Tool	CS007779
1	3mm Cable Clamp	S014704
1	2mm Cable Clamp	S014705
1	250/900µm Cable Clamp	CS004442
1	Fiber Preparation Fluid	FRF1-00-0900
1	Installation Instructions	CS007701
1	Strip Length Template	CS001203
1	Assembly Video	CS001204
1	Carrying Case	CS001202

PART#	PRICE
CS001201	$1,375.00

FAST CONNECTORS

PART #	DESCRIPTION	PRICE
CS007611	Fast-SC 50/125µm MM 250µm, 900µm, 2.0mm and 3.0mm	$8.80
CS007612	Fast-SC OM3 10G, 250µm, 900µm, 2.0mm and 3.0mm	9.90
CS007610	Fast-SC 62.5/125µm MM 250µm, 900µm, 2.0mm and 3.0mm	8.80
CS007609	Fast-SC SM 250µm, 900µm, 2.0mm and 3.0mm	11.15
CS008480	Fast-ST 62.5/125µm MM 250µm, 900µm, 2.0mm and 3.0mm	9.20
CS008479	Fast-ST SM 900µm, 2.0mm and 3.0mm	11.37
CS007614	Fast-LC 62.5/125µm MM 250µm, 900µm, 2.0mm and 3.0mm	9.75
CS007615	Fast-LC 50/125µm MM 250µm, 900µm, 2.0mm and 3.0mm	9.75
CS007616	Fast-LC 50/125µm MM 10Gig 250µm, 900µm, 2.0mm and 3.0mm	10.25
CS007613	Fast-LC SM 250µm, 900µm, 2.0mm and 3.0mm	14.45

NEW

3M

8765-APC

3M™ CRIMPLOK+™ SINGLEMODE CONNECTORS & TOOL KIT

These new connectors from 3M provide fast, easy field installation of 900µm singlemode fiber without a splice, gel or adhesive. Features a metallic element that mechanically locks the fiber in place and a streamlined boot that attaches to the body minimizing the chance of losing or forgetting to install it during the termination process. The Crimplok+ connectors and tools are RoHS compliant.

PART #	DESCRIPTION	PRICE
8700-UPC	Crimplok+ Connector SC/UPC SM 900µm boot	$11.95
8700-APC	Crimplok+ Connector SC/APC SM 900µm boot	15.95
8765-UPC	Crimplok+ Connector Termination Kit for SC/UPC	1,600.00
8765-APC	Crimplok+ Connector Termination Kit of SC/APC	1,600.00
8765-PSUPC	Crimplok+ Protrusion Setting Tool for SC/UPC	35.00
8765-PSAPC	Crimplok+ Protrusion Setting Tool for SC/APC	35.00
8765-NFUPC	Crimplok+ Nano Polishing Tool for SC/UPC	270.00
8765-NFAPC	Crimplok+ Nano Polishing Tool for SC/APC	270.00

3M™ CRIMPLOK™ CONNECTORS & TOOL KIT

Crimplok™ connectors combine the speed of non-adhesive connectors with the performance characteristics of epoxy and Hot Melt Connectors. Crimploks are the ideal solution when there is no power source or for working in tight workspaces. The Crimplok™ Termination Kit is designed to terminate your Crimplok ST and SC fiber optic singlemode and multimode connectors.

6955

KIT CONTENTS

QTY	DESCRIPTION	PART #	QTY	DESCRIPTION	PART #
1	Crimp Tool	6955-C	1	Activation Tool, Crimplok	6955-T
1	Polish Tool	6955-P	1	View Scope, 100X	6355-A
50	Lapping Film, One Step, Crimplok	SP-00503	1	Buffer Stripper	6955-S
50	Lapping Film, Final SM, Crimplok	80611013121	1	Lint Free Cloths, (4"x4")	05-00017
1	Polishing Jig, Universal	8892			

PART#	DESCRIPTION				PRICE
6955	Crimplok Tool Kit				$735.00

PART #	STYLE	FERRULE	TYPICAL LOSS	TYPE	PRICE
6901	ST	Zirconia	.2dB	Multimode	$5.75
6900	SC	Zirconia	.2dB	Multimode	5.75
8901	ST	Zirconia	.1dB	Singlemode	7.95
8900	SC	Zirconia	.1dB	Singlemode	8.95
6365CT	3M Crimp Tool for Crimploks				150.00
6955T	3M Crimplok Activation Tool				147.00
SP-00503	3M Crimplok One-step Polish Film (Package of 50)				58.00
80-6110-1312-1	3M Crimplok Singlemode Final Step Film (Package of 50)				46.95

8901

8900

Connectivity

Connectivity

Mini LC
F1-6068AQ

F1-5069

CORNING

95-100-LCSP

molex®

10624-5500

F-MTRJFMMC

MTP12MM

USCONEC

F1-50900

LC CONNECTORS

The LC connector licensed by Lucent Technologies provides a pull-proof design and small size perfect for high-density applications. Available in simplex or duplex versions. The LC connector is provided with a 1.25mm zirconia ferrule. The LC also incorporates a unique latching mechanism providing stability in system rack mounts.

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
FIS					
F1-5066	Simplex-MM	3.0mm	128µm	Zirconia	$2.30
F1-5066AQ	Simplex-MM 10 Gig	3.0mm	126µm	Zirconia	2.75
F1-506616AQ	Simplex-MM 10 Gig	1.6-2.0mm	128µm	Zirconia	2.30
F1-506616	Simplex-MM	1.6-2.0mm	128µm	ZIrconia	2.30
F1-5066900	Simplex-MM	900µm	128µm	Zirconia	2.30
F1-5069	Simplex-SM	3.0mm	126µm	Zirconia	2.75
F1-506916	Simplex-SM	1.6-2.0mm	126µm	Zirconia	2.75
F1-5069900	Simplex-SM	900µm	126µm	Zirconia	2.75
F1-5069APC	Simplex APC	3.0mm	126µm	Zirconia	5.35
F1-5069900APC	Simplex APC	900µm	126µm	Zirconia	5.35
F1-6066	Duplex-MM	3.0mm	128µm	Zirconia	4.75
F1-606616	Duplex-MM	1.6-2.0mm	128µm	Zirconia	4.75
F1-6069	Duplex-SM	3.0mm	126µm	Zirconia	5.75
F1-606916	Duplex-SM	1.6-2.0mm	126µm	Zirconia	5.75
F1-6069900	Duplex-SM	900µm	126µm	Zirconia	5.75
F1-5066AR	Anaerobic-MM	3.0mm	128µm	Zirconia	3.50
F1-6067	Duplex Mini LC-SM - Blue	1.6mm	126µm	Zirconia	5.75
F1-6068AQ	Duplex Mini LC–MM - 10 Gig	1.6mm	127µm	Zirconia	4.75
F1-6068	Duplex Mini LC-MM - Beige	1.6mm	127µm	Zirconia	4.75

The Mini LC Connector is designed with a narrow ferrule pitch (5.25mm) to work with the Mini SFP (mSFP) transceiver.

CCS

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
95-100-LCSP	Simplex-MM	3.0mm	125.5µm	Zirconia	$4.75
TRIGGER-BP-D	LC Clips(each) - Simplex to duplex converters				17¢
MOLEX					
106024-3500	Simplex-MM	900µm	128µm	Zirconia	$3.95
106024-5500	Simplex-SM	900µm	126µm	Zirconia	6.00
106024-3259	Simplex-MM	3mm	127µm	Zirconia	3.50
106024-5259	Simplex-SM	3mm	126µm	Zirconia	4.60
106025-3000	Duplex-MM	1.6mm	128µm	Zirconia	8.45
106025-5000	Duplex-SM	1.6mm	126µm	Zirconia	10.00

MT-RJ CONNECTORS

The MT-RJ duplex connector provides increased port density two times that of an SC. The single plastic ferrule houses two fibers utilizing a user-friendly RJ-45 connection system. The same size as a simplex SC connector, the MT-RJ is designed for backbone, local area networks and telecommunication systems.

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
FIS					
F1-MTRJFMMC	No Pins-MM	3.0mm	128µm	Plastic	$2.20
F1-MTRJFSMC	No Pins-SM	3.0mm	128µm	Plastic	4.45
F1-MTRJMMMC	w/ Pins-MM	3.0mm	128µm	Plastic	3.60
F1-MTRJMSMC	w/ Pins-SM	3.0mm	128µm	Plastic	6.00
MOLEX					
106003-3030	No Pins-MM Female	3.0mm	128µm	Plastic	$7.35
106002-3030	w/ Pins-MM Male	3.0mm	128µm	Plastic	7.85

MTP® CONNECTORS

The MTP® is a MPO compatible connector that provides quick and reliable connection for up to 12 fibers. Available in singlemode with a typical loss of 0.25dB and multimode with a loss of 0.20dB. Four and eight fiber MTP® connectors are available. Singlemode ferrules are angled at 8º.

PART #	DESCRIPTION	PRICE
MTP12MM	MTP Connector 12 Fiber Multimode w/ Pins (Ribbon Cable, Beige Housing)	$15.75
MTP12MF	MTP Connector 12 Fiber Multimode No Pins (Ribbon Cable, Beige Housing)	15.75
MTP12SM	MTP Connector 12 Fiber Singlemode w/ Pins (Ribbon Cable, Green Housing)	21.95
MTP12SF	MTP Connector 12 Fiber Singlemode No Pins (Ribbon Cable, Green Housing)	21.50
MTP12MMRD	MTP Connector 12 Fiber Multimode w/Pins (Round Cable, Aqua Housing)	15.75
MTP12MFRD	MTP Connector 12 Fiber Multimode No Pins (Round Cable, Aqua Housing)	15.75
MTP12SMRD	MTP Connector 12 Fiber Singlemode w/Pins (Round Cable, Green Housing)	21.95
MTP12SFRD	MTP Connector 12 Fiber Singlemode No Pins (Round Cable, Green Housing)	21.50
MTP12MMBRD	MTP Connector 12 Fiber Multimode w/Pins (Round Cable, Beige Housing)	13.75
MTP12MFBRD	MTP Connector 12 Fiber Multimode No Pins (Round Cable, Beige Housing)	13.75

NOTE: Singlemode MTP Connectors are angled at 8º to improve performance (indicated by green housing)

MU CONNECTORS

The MU connector is designed for high-density connections. This small single-fiber connector has a high level of performance, providing more than double the packaging density of the SC connector.

PART #	MFG	FERRULE SIZE	FERRULE	TYPICAL LOSS	PRICE
F1-50900	FIS	126µm	Zirconia	.2dB	$4.30
F1-50201	FIS	125µm	ZIrconia	.2dB	3.75

SC CONNECTORS

The SC is a non-optical disconnect connector with a 2.5mm pre-radiused zirconia ferrule. Available in simplex and duplex styles, this connector features a push-pull connection design for quick patching of cables into rack or wall mounts. Utilize the reusable duplex holding clip to create duplex connections.

PART #	TYPE	FERRULE SIZE	FERRULE	BOOT SIZE	PRICE
FIS					
F1-3066	Multimode	127µm	ZIrconia	3mm	$2.30
F1-306620	Multimode	127µm	Zirconia	2mm	2.30
F1-3066900	Multimode	127µm	Zirconia	900µm	2.30
F1-3061	Multimode	127µm	Stainless Alloy	3mm	2.95
F1-3069	Singlemode	126µm	Zirconia	3mm	2.95
F1-306920	Singlemode	126µm	Zirconia	2mm	2.95
F1-3069900	Singlemode	126µm	Zirconia	900µm	2.95
F1-3069APC	Singlemode APC	126µm	Zirconia	3mm	5.50
F1-3069900APC	Singlemode APC	126µm	Zirconia	900µm	5.50
F1-3069APC20	Singlemode APC	126µm	Zirconia	2mm	5.50
F1-3066AR	Multimode (Anaerobic)	125µm	Zirconia	3mm	3.25
F1-CLBK	Duplex Clip (Black for Multimode)				0.50
F1-CLBL	Duplex Clip (Blue for Singlemode)				0.50
F1-3066AQ	Multimode 10 Gig	127µm	Zirconia	3.0mm	2.95
F1-3066AQ20	Multimode 10 Gig	127µm	Zirconia	1.6/ 2.0mm	2.95
F1-3066AQ900	Multimode 10 Gig	127µm	Zirconia	900µm	2.95
3M™					
6306	Multimode	125µm	Zirconia	3mm	$2.50
8306	Singlemode	126µm	Zirconia	3mm	3.25
8306SCAPC	Singlemode APC	126µm	Zirconia	3mm	5.95
8306SCAPC900	Singlemode APC	126µm	Zirconia	900µm	5.95
CCS					
95-100-48SP	Multimode	125.5µm	Zirconia	3mm	$5.10
95-101-16SP	Multimode (Anaerobic)	125µm	Zirconia	3mm	5.50
SEIKOH GIKEN					
SSCPE3C1261A300G	Singlemode	126µm	Zirconia	3mm	$3.25
SSCPNE871251B300G	Singlemode APC	125µm	Zirconia	3mm	5.95
MOLEX					
106063-0060	Multimode	125µm	Zirconia	3mm	$3.00
106063-5000	Singlemode	126µm	Zirconia	3mm	5.25
106063-5500	Singlemode	126µm	Zirconia	900µm	5.25
106065-5000	Singlemode APC	126µm	Zirconia	3mm	9.75
106065-5500	Singlemode APC	126µm	Zirconia	900µm	9.75

Connectivity

Buy FIS in Bulk and Save!!

F1-3069-100

Other part numbers available upon request

F1-3800BC-100

FIS BULK CONNECTORS

FIS multimode and singlemode ST, SC, LC and FC connectors utilize a high quality 2.5mm zirconia ferrule. Bulk packaged in lots of 100 pieces, these connectors offer the best value in performance and cost savings. Provided with 3mm boots.

PART #	DESCRIPTION	PRICE
F1-0066-100	FIS MM ST Conn - (100 pk.)	$135.00
F1-0069-100	FIS SM ST Conn - (100 pk.)	170.00
F1-5066-100	FIS MM LC Conn - (100 pk.)	200.00
F1-5069-100	FIS SM LC Conn - (100 pk.)	265.00
F1-2073-100	FIS MM FC Conn - (100 pk.)	298.00
F1-2070-100	FIS SM FC Conn - (100 pk.)	330.00
F1-3066-100	FIS MM SC Conn - (100 pk.)	190.00
F1-3069-100	FIS SM SC Conn - (100 pk.)	230.00
F1-3066AQ-100	FIS MM 10 Gig SC Conn- (100 pk.)	230.00
F1-5066AQ-100	FIS MM 10 Gig LC Conn- (100 pk.)	265.00

FIS BULK ADAPTERS

FIS multimode and singlemode ST, SC, LC and FC adapters bulk packaged in lots of 100 pieces. These adapters offer the best value in performance and cost savings.

PART #	DESCRIPTION	PRICE
F1-8102SS-100	FIS MM ST - (100 pk.)	$78.00
F1-8200A-100	FIS SM ST - (100 pk.)	117.00
F1-8020-100	FIS MM LC Duplex - (100 pk.)	247.50
F1-8010-100	FIS SM LC Duplex- (100 pk.)	405.00
F1-8520-100	FIS SM FC Style 2 - (100 pk.)	300.00
F1-3800BC-100	FIS MM SC Beige - (100 pk.)	90.00
F1-3810BC-100	FIS SM SC Blue - (100 pk.)	157.00
F1-4800BC-100	FIS SM SC/APC Green - (100 pk.)	200.00
F1-8600ET-100	FIS MM SC Duplex - (100 pk.)	250.00

Connectivity

ST CONNECTORS

The ST connector utilizes a bayonet twist-lock connection with 2.5mm ferrule. Available in singlemode and multimode, the ST connector features reliable and durable field installation. The design of the ST connector enables installers to crimp the back of the body directly onto the cable jacket and Kevlar®. This eliminates cable pull-away, ensuring a strong termination. Upon request, FIS ST connectors can be supplied without FIS markings. Stainless alloy ferrules can be custom drilled.

PART #	TYPE	FERRULE SIZE	FERRULE	BOOT	PRICE
FIS					
F1-0066	Multimode	127µm	Zirconia	3mm	$1.60
F1-006620	Multimode	127µm	Zirconia	2mm	1.60
F1-0066900BLK	Multimode	127µm	Zirconia	900µm	1.60
F1-0067	Multimode	140µm	Zirconia	3mm	2.95
F1-0069	Singlemode	126µm	Zirconia	3mm	2.30
F1-006920	Singlemode	126µm	Zirconia	2mm	23.0
F1-0069900	Singlemode	126µm	Zirconia	900µm	2.30
F1-0061	Multimode	127µm	Stainless Alloy	3mm	2.50
F1-006120	Multimode	127µm	Stainless Alloy	2mm	2.50
F1-0063	Multimode	140µm	Stainless Alloy	3mm	2.75
F1-0064	Multimode	230µm	Stainless Alloy	3mm	3.25
F1-0065	Plastic Fiber	1000µm	Stainless Alloy	3mm	3.25
F1-1066AR	Multimode (Anaerobic)	125µm	Zirconia	3mm	2.75
F1-0066AQ	Multimode - 10 Gig	127µm	Zirconia	3mm	2.30
F1-0066AQ20	Multimode - 10 Gig	127µm	Zirconia	2mm	2.30
F1-0066AQ900	Multimode - 10 Gig	127µm	Zirconia	900µm	2.30
3M™					
6105	Multimode	125µm	Zirconia	3mm	$2.00
8106	Singlemode	126µm	Zirconia	3mm	2.85
CCS					
95-100-44SP	Multimode	125.5µm	Zirconia	3mm	$5.10
95-250-06SP	Singlemode	125.5µm	Composite	3mm	9.95
MOLEX					
106010-0000	MM Long Boot w/Plastic Housing	125µm	Zirconia	3mm	$2.00
106010-0200	MM Short Boot w/Plastic Housing	125µm	Zirconia	3mm	2.00
106012-0200	MM Short Boot w/Metal Housing	125µm	Zirconia	3mm	2.40
106010-0500	MM Boot w/Plastic Housing	125µm	Zirconia	900µm	2.00
106012-5000	SM w/Metal Housing	126µm	Zirconia	3mm	5.95

FC CONNECTORS

FC connectors are specifically designed for telecommunication applications and provide non-optical disconnect performance. Designed with a threaded coupling for durable connections. The ferrule is PC finished to a pre-radius, which ensures low back reflection. Stainless alloy ferrules can be custom drilled to your specifications. All FIS FC connectors use narrow key (2.0mm).

PART #	TYPE	FERRULE SIZE	FERRULE	BOOT	PRICE
FIS					
F1-2073	Multimode	127µm	Zirconia	3mm	$3.75
F-1207320	Multimode	127µm	Zirconia	2mm	3.75
F1-2073900	Multimode	127µm	Zirconia	900µm	3.75
F1-2777	Multimode	140µm	Zirconia	3mm	4.45
F1-2771	Multimode	128µm	Stainless Alloy	3mm	4.45
F1-2772	Multimode	140µm	Stainless Alloy	3mm	4.45
F1-2774	Multimode	230µm	Stainless Alloy	3mm	4.45
F1-2070	Singlemode	126µm	Zirconia	3mm	4.25
F1-207020	Singlemode	126µm	Zirconia	2mm	4.25
F1-2070900	Singlemode	126µm	Zirconia	900µm	4.25
F1-2070APC	Singlemode - APC	126µm	Zirconia	3mm	5.50
F1-2070APC20	Singlemode - APC	126µm	Zirconia	2mm	5.50
F1-2070900APC	Singlemode - APC	126µm	Zirconia	900µm	5.50
F1-2073AQ	Multimode - 10 Gig	127µm	Zirconia	3mm	4.25
F1-2073AQ900	Multimode - 10 Gig	127µm	Zirconia	900µm	4.25
3M™					
6202	Multimode w/Plastic Housing	125µm	Zirconia	3mm	$4.25
8203	Singlemode w/Plastic Housing	126µm	Zirconia	3mm	4.75
8206FCAPC	Singlemode w/Plastic Housing - APC	126µm	Zirconia	3mm	5.95
8206FCAPC900	SM w/Plastic Housing - APC	126µm	Zirconia	900µm	6.75
CCS					
95-100-10SP	Multimode	125µm	Zirconia	3mm	$5.10
SEIKOH GIKEN					
SAP8311260A300G	Singlemode	126µm	Zirconia	3mm	$3.20
SNP8871261B3K2G	Singlemode - APC	126µm	Zirconia	3mm	5.95
MOLEX					
106053-3000	Multimode	125µm	Zirconia	3mm	$6.10
106053-5000	Singlemode	126µm	Zirconia	3mm	6.75
106053-5500	Singlemode	126µm	Zirconia	900µm	6.75
106055-5000	Singlemode - Narrow Key - APC	126µm	Zirconia	3mm	9.75
106055-5500	Singlemode - Narrow Key - APC	126µm	Zirconia	900µm	9.25

CUSTOM DRILLING SERVICES FROM FIS

FIS offers a fast turnaround on custom micro drilling services. FIS can accommodate almost any fiber size for special applications. We are capable of drilling FC and SC style stainless alloy connectors that range from 250µm to 900µm. ST and SMA style stainless alloy connectors can be drilled up to 1550µm. However we cannot drill to odd sizes or stainless steel ferrules.

When ordering drilled FIS stainless alloy connectors add $1.50 to list price of any connector drilled up to 900µm and $2.00 to any connector drilled from 900µm or larger. If a drill bit not listed is required add a $50 drill charge fee and allow an additional two weeks.

Minimum Order Quantity - Ten connectors.

250µm - 490µm Hole Sizes:
Hole Size Tolerance	+10µm / -4µm
Concentricity	15µm or less

500µm - 990µm Hole Sizes:
Hole Size Tolerance	+20µm / -5µm
Concentricity	20µm or less

1000µm - 1550µm Hole Sizes:
Hole Size Tolerance	+30µm / -10µm
Concentricity	25µm or less

There are many factors that can affect the performance of very small drill bits. Hole sizes below 250µm and above 900µm drilled in-house will be done on a "best effort" basis. However, we cannot guarantee the performance of these parts in your customer's application. FIS recommends that you first order a small sample batch of drilled parts to evaluate for your application.

250µm	450µm	650µm	920µm
260µm	460µm	660µm	930µm
270µm	470µm	670µm	970µm
280µm	480µm	680µm	1000µm
300µm	490µm	710µm	1010µm
310µm	500µm	730µm	1040µm
330µm	510µm	750µm	1080µm
340µm	520µm	770µm	1100µm
350µm	530µm	800µm	1200µm
360µm	540µm	810µm	1300µm
380µm	550µm	830µm	1370µm
400µm	570µm	840µm	1500µm
410µm	600µm	860µm	1550µm
420µm	610µm	880µm	**Drill Sizes**
430µm	630µm	900µm	
440µm	640µm	910µm	

Connectivity

SMA 905 & 906 CONNECTORS & MATING SLEEVES

The SMA 905 and 906 multimode connectors are available with stainless alloy. Ferrules and connectors are supplied with 3mm boots may be custom drilled. When installing 906 SMA's into 905 SMA mating sleeves, a provided 1/2 sleeve must be installed on the 906 ferrule.

905

PART #	TYPE	FIBER SIZE	FERRULE	TYPICAL LOSS	PRICE
F1-93336	MM	127µm	Stainless Alloy	.25dB	$5.50
F1-93336140	MM	140µm	Stainless Alloy	.25dB	5.95
F1-93336230	MM	230µm	Stainless Alloy	.25dB	5.95

906

PART #	TYPE	FIBER SIZE	FERRULE	TYPICAL LOSS	PRICE
F1-9333	MM	127µm	Stainless Alloy	.25dB	$6.50
F1-9333140	MM	140µm	Stainless Alloy	.25dB	7.00
F1-9333230	MM	230µm	Stainless Alloy	.25dB	5.95
F1-93330			FIS SMA Adapter for 905 & 906		14.95

FDDI CONNECTORS

FDDI connectors combine low loss with positive side latch mating, polarization, keying and fiber strain relief. All connectors are multimode zirconia ferrules.

PART #	DESCRIPTION	TYPICAL LOSS	PRICE
106030-0200	FDDI for a 3mm Zipcord Cable	.3dB	$13.95

ESCON CONNECTORS

ESCON describes a duplex connector using a free-floating ferrule structure and a positive latching mechanism. Uses standard ST polish disc and a special two-die crimper. ESCON is a registered trademark of IBM Corporation. Multimode only.

PART #	DESCRIPTION	TYPICAL LOSS	PRICE
106040-3200	Connector for 3mm Zipcord Cable	.13dB	$13.50
106142-2400	Multimode Mating Sleeve		11.75

D4 CONNECTORS

This non-optical disconnect D4 connector features threaded parts that reduce complexity and assembly time.

PART #	MFG	FIBER SIZE	TYPICAL LOSS	TYPE	PRICE
F1-4069C	Subject to change	126µm	.3dB	SM	$9.65
F1-4069AD		D4 Adapter Phos. Bronze Sleeve			6.30

Supplied with 3mm Boot

BICONIC CONNECTORS

The Biconic connector with a polymer ferrule provides the best performance available in its class for multimode and singlemode applications. Call for Availability.

PART #	MFG	FIBER SIZE	TYPE	PRICE
SMBIC01	Subject to change	126µm	SM	$50.00
MMBIC02	Subject to change	126µm	MM	50.00
F1-6647		Singlemode Biconic Adapter		25.35

Supplied with 3mm Boot

BOOTS & ACCESSORIES

1. Choose your style

2. Choose your color

Connectivity

R RED	
B BLACK	
GR GREEN	
W WHITE	
Y YELLOW	
BLU BLUE	
A AQUA	

(A) ST 900µm	(B) 90º FC/SC 3mm	(C) FC/SC 900µm	(D) FIS ST 3mm	(E) FIS FC 3mm	(F) FIS SC 3mm	(G) LC 90º	(H) FIS LC	(I) FIS LC 50º	(J) CCS 90º
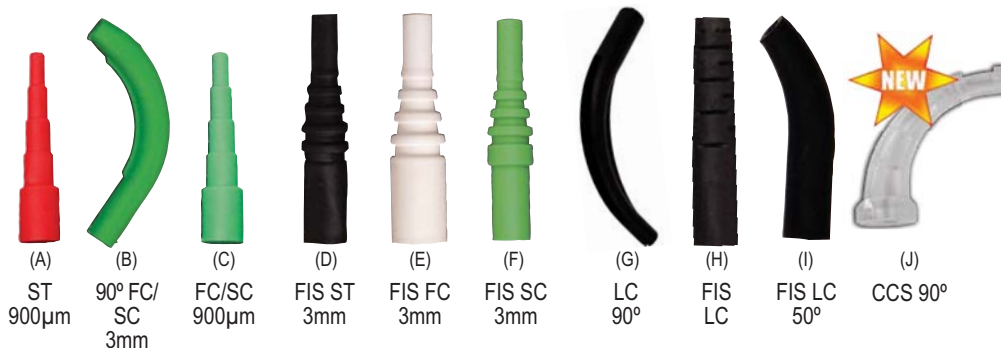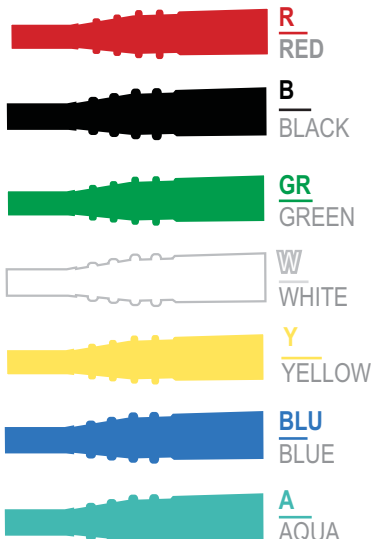
STRAIN RELIEF BOOTS

Designed to be utilized on .128, .151, & .190 crimp sleeves. FIS boots are available in Red (R), Black (B), Green (GR), Blue (BLU), Aqua (A), White (W), and Yellow (Y). Replace X with abbreviation of color in parenthesis.

PART #	DESCRIPTION (See Strain Relief Boot style chart above)	ID	Length	Crimp Size	PRICE
667342900-25-X	FIS ST 900µm Boot (A) (25 pk.)	0.15	1.13"	0.128	$6.25
CONN90-25-X	FIS SC & FC 3mm 90º Boot (B) (25 pk.)	0.20	1.40"	0.190	13.75
CONN107900-25-X	FIS SC & FC 900µm Boot (C) (25 pk.)	0.17	1.13"	0.179	6.25
667342-BC-25-X	FIS ST 3mm Boot (D) (25 pk.)	0.15	1.47"	0.128	6.25
6673422-BC-25-X	FIS ST 2mm Boot (25 pk.)	0.15	1.47"	0.128	6.25
CONN107BC-25-X	FIS FC 3mm Boot (E) (25 pk.)	0.20	1.25"	0.190	6.25
CONN1072-BC-25-X	FIS FC 2mm Boot (25 pk.)	0.20	1.25"	0.190	6.25
CONN205-25-X	FIS SC 3mm Boot (F) (25 pk.)	0.20	1.47"	0.190	6.25
F1-LC 90-BLK-25	FIS LC 90º 2mm Boot Black (G) (25 pk.)	0.137	1.44"	0.128	6.25
LCBOOTBL25	FIS LC 3mm Boot Black (H) (25 pk.)	0.137	1.10"	0.128	6.25
F1-LC45BL25	FIS LC 50º 2mm Boot Black (I) (25 pk.)	0.137	1.0"	0.128	6.25
F1-LC90M2590	FIS LC 90º 2mm Boot White (not shown) (25 pk.)	0.137	1.40"	0.128	6.25
F1-LC90GR25	FIS LC 90º 2mm Boot Green (not shown) (25pk.)	0.137	1.40"	0.128	6.25
CONN205-XX-M20	FIS SC 2mm Boot (not shown) (25pk.)	0.20	1.47"	0.190	6.25
9540002BP	CCS Clip 90º for ST/SC/FC 3mm Boots (J)				1.40
9540004BPC	CCS Clip 90º for 2mm Boots				55¢

SPIRAL BOOT

The Spiral Cut Boot is designed for the times when you forget to put the boot on your cable before you terminated a connector. The unique spiral cut allows you to wrap the boot around the cable and then slide it up behind the connector. No need to cut off a good connector because of a forgotten boot. Boot is straight when relaxed.

PART #	DESCRIPTION	PRICE
SPIRALBOOT25	Spiral Cut 3mm Boot 25-Pack	$12.95

ALIGNMENT SPLIT SLEEVES

Split sleeves are designed to align 2.5mm ferrules with precision. The Phosphor Bronze version provides the precision you require on multimode fiber applications. The split sleeves have an outside diameter of 3.2mm and a length of 11.4mm. **NOT AVAILABLE INDIVIDUALLY**

PART #	DESCRIPTION	PRICE
F1-8300SSC-25	Zirconia Split Sleeve (25 pk.)	$20.00
F1-8300SS-25	Phosphor Bronze Split Sleeve (25 pk.)	7.50

FERRULES

FIS offers a variety of 2.5mm Zirconia and Stainless Alloy ferrules for multimode and singlemode applications. Zirconia ferrules have a standard PC radius. Stainless Alloy ferrules are suitable for many laboratory or other specialty applications. **NOT AVAILABLE INDIVIDUALLY**

PART #	DESCRIPTION	LENGTH	PRICE
F1-TSMM127-25	127µm Zirconia Ferrule (Multimode) (25 pk.)	10.5mm	$13.75
F1-SM126-25	126µm Zirconia Ferrule (Singlemode) (25 pk.)	10.5mm	17.50
F1-140K-25	140µm Zirconia Ferrule (Multimode) (25 pk.)	10.5mm	32.50
F1-0061F-25	125µm Stainless Alloy Ferrule (25 pk.)	12.7mm	36.25
F1-0063F-25	140µm Stainless Alloy Ferrule (25 pk.)	12.7mm	36.25
F1-0064F-25	230µm Stainless Alloy Ferrule (25 pk.)	12.7mm	36.25

FERRULE PROTECTION CAPS

FIS protection caps are designed to provide protection against various elements that could damage either the ferrule or fiber. The universal clear protection caps fit ST, FC and SC style 2.5mm ferrules.

PART #	DESCRIPTION	PRICE
CPCYGR-B	Green Dust Cap Covers FC Housing (A) (100 pk.)	$25.00
CPCY-B	Yellow Dust Cap Covers FC Housing (B) (100 pk.)	25.00
CAPB-B	Universal Clear Cap for 2.5mm Ferrules (C) (100 pk.)	25.00
F1-0125	Universal Dust Cap for 1.25mm Ferrules (D) (100 pk.)	25.00
F1-90010M	Universal Dust Cap for 2.5mm Ferrules w/ jacket strap (E) (100 pk.)	25.00

Please refer to "style" Columns when making your selection.
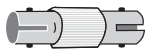
Floating Style 1

Threaded Style 2
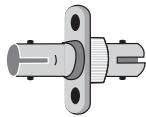
Flanged Style 3
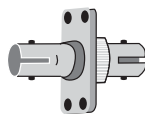
Square Flanged Style 4

Fiber optic adapters also referred to as mating sleeves, come in a variety of configurations to meet almost any application. The most common constructions are standard, hybrid, and bare fiber adapters.

Standard fiber optic adapters are simplex, duplex and quad structure and are female-to-female type orientation. A hybrid adapter is used to connect different kinds of fiber optic connectors together allowing for the use of existing connector types. Bare fiber adapters are used for emergency use or temporary links. They contain a connector body on one side and a placement for a bare optical fiber on the other. Use the chart to help in the selection of an adapter style for your application.
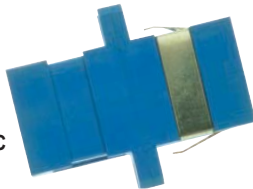
F1-3810BC

F1-8620

F1-8350
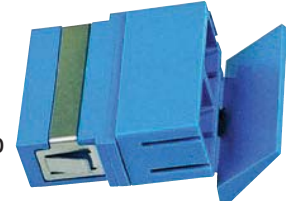
F1-SCRD

SC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
FIS					
F1-3800BC	Multimode - Beige	3	Polymer	Phos. Bronze	$1.00
F1-8320	Multimode - Black	3	Polymer	Phos. Bronze	1.00
F1-8350	Multimode - 10 Gig - Aqua	3	Polymer	Phos. Bronze	1.75
F1-3810BC	Singlemode - Blue	3	Polymer	Zirconia	2.25
F1-4800BC	Singlemode APC - Green	3	Polymer	Zirconia	2.25
F1-8600E	Duplex Multimode - Beige	3	Polymer	Phos. Bronze	2.75
F1-8620	Duplex Multimode - Black	3	Polymer	Phos. Bronze	2.75
F1-8650	Duplex Multimode -10 Gig-Aqua	3	Polymer	Phos. Bronze	2.75
F1-8601	Duplex Singlemode - Blue	3	Polymer	Zirconia	3.50
F1-SCRD	Duplex Singlemode - Blue	3w/ Shutter	Polymer	Zirconia	4.95
F1-8701	Duplex APC - Green	3	Polymer	Zirconia	3.75
3M™					
6310	Multimode - Beige	3	Polymer	Phos. Bronze	$1.35
8310	Singlemode - Blue	3	Polymer	Zirconia	4.30
8310G	Singlemode - APC - Green	3	Polymer	Zirconia	5.00
6313	Duplex Multimode - Beige	3	Polymer	Phos. Bronze	2.75
MOLEX					
106161-0000	Singlemode - Blue	3	Polymer	Zirconia	$4.75
106161-3000	Singlemode - APC - Green	3	Polymer	Zirconia	5.25
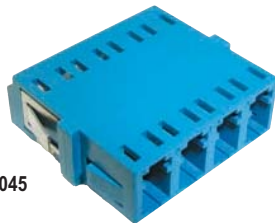
F1-8045

F1-8018
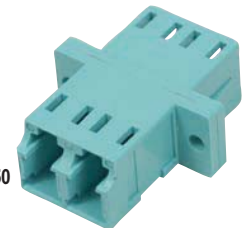
F1-8050

LC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
FIS					
F1-8000A	Multimode-Beige	1	Polymer	Phos. Bronze	$1.85
F1-8005	Singlemode-Blue	1	Polymer	Zirconia	3.00
F1-8008	Singlemode - APC - Green	1	Polymer	Zirconia	3.75
F1-8020	Duplex Multimode-Beige	1	Polymer	Phos. Bronze	2.75
F1-8030	Duplex Multimode-Beige	SC Footprint	Polymer	Phos. Bronze	3.25
F1-8050	Duplex MM -10 Gig - Aqua	SC ftpt	Polymer	Phos. Bronze	3.25
F1-8010	Duplex Singlemode-Blue	1	Polymer	Zirconia	4.50
F1-8035	Duplex Singlemode-Blue	SC ftpt	Polymer	Zirconia	4.75
F1-8015	Duplex APC - Green	1	Polymer	Zirconia	4.95
F1-8018	Duplex APC - Green	SC ftpt	Polymer	Zirconia	4.95
F1-LCAD02R	Duplex Singlemode-Blue	1 w/Shutter	Polymer	Zirconia	4.95
F1-8040	Quad Multimode-Beige	SC Dup ftpt	Polymer	Phos. Bronze	6.00
F1-8041	Quad Multimode -10 Gig - Aqua	SC Dup ftpt	Polymer	Phos. Bronze	6.00
F1-8045	Quad Singlemode-Blue	SC Dup ftpt	Polymer	Zirconia	9.45
MOLEX					
106124-0010	Multimode - Beige	1	Polymer	Phos. Bronze	$4.90
106124-1000	Singlemode - Blue	1	Polymer	Zirconia	6.50
106125-1110	Duplex Multimode - Beige	1	Polymer	Phos. Bronze	9.45
106125-1100	Duplex Singlemode - Blue	1	Polymer	Zirconia	9.45

F1-8102SS

106110-0000

6113
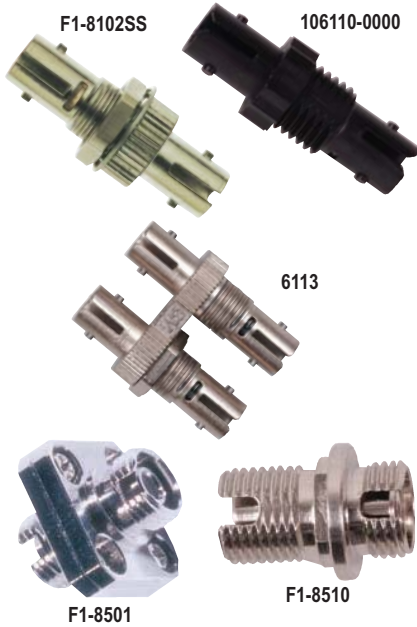
F1-8501

F1-8510

106102-0000
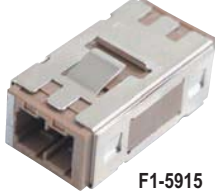
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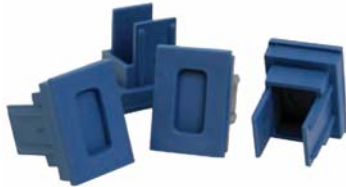
F1-9229-ST   **F1-9229-SC**   **F1-9229-LC**

ST ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
FIS					
F1-8102SS	Multimode	2	Metal	Phos. Bronze	85¢
F1-8200A	Singlemode	2	Metal	Zirconia	$1.30
3M™					
6112	Multimode	2	Metal	Phos. Bronze	$1.45
8119	Singlemode	2	Metal	Zirconia	3.45
6113	Duplex Multimode	2	Metal	Phos. Bronze	3.25
8113	Duplex Singlemode	2	Metal	Zirconia	5.95
MOLEX					
106113-0000	Multimode - Black	2	Polymer	Polymer	$1.25
106110-1000	Singlemode	2	Metal	Zirconia	3.25
106110-0000	Singlemode/Multimode - Black	2	Polymer	Zirconia	3.00

FC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
FIS					
F1-8501	Multimode	4	Metal	Phos. Bronze	$2.30
F1-8510	Multimode	2	Metal	Phos. Bronze	2.50
F1-8520	Singlemode/Multimode	2	Metal	Zirconia	3.35
F1-8521S	Singlemode - APC	4	Metal	Zirconia	3.75
F1-8525	Singlemode - APC	2	Metal	Zirconia	3.75
3M™					
8211	Singlemode	2	Metal	Zirconia	$6.25
8211APC	Singlemode - APC	2	Metal	Zirconia	6.75
MOLEX					
106152-0100	Singlemode/Multimode	4	Metal	Zirconia	$5.30
106152-1000	Singlemode/Multimode	2	Metal	Zirconia	4.45
106152-3000	Singlemode - APC	2	Metal	Zirconia	4.45

MT-RJ MATING SLEEVES

PART #	MFG	TYPE	STYLE	HOUSING	PRICE
F1-890M	FIS	SM / MM	SC Footprint	Polymer	$1.65
106102-0000	Molex	SM / MM	3	Polymer	1.35

MTP® ADAPTERS (Not Shown)

PART #	DESCRIPTION	PRICE
MTP-ADPT	MTP Adapter, Front Panel, Standard	$5.65
MTP-9299	MTP Adapter, Screw Mount 30˚ angle	24.95
MTP-RFADPT	MTP Adapter, Reduced Flange, Standard	5.65

MU MATING SLEEVES

PART #	MFG	TYPE	HOUSING	SLEEVE	PRICE
F1-5910S	FIS	Singlemode	Simplex - Polymer	Zirconia	$5.00
F1-5915	FIS	Singlemode	Duplex - Polymer	Zirconia	6.65

SC ADAPTER CAPS

The SC dust caps for adapters are easy to misplace and now FIS makes them just as easy to replace! Available in multiple colors, these caps provide eye protection from active lasers and keep most contaminates off the inner split sleeves of adapters or away from plugged in backplane ferrules.

PART #	DESCRIPTION	PRICE
F1-ADCAP-XX	SC Mating Sleeve Adapter Dust Caps - (100 pk.)	$25.00

REPLACE "xx" WITH CODE BELOW TO SELECT COLOR

CL-Clear	BU-Blue	BL-Black	SL-Slate	BE-Beige	GR-Green	AQ-Aqua

LASER SAFETY CAPS

FIS has created a solution to the problem of laser light emitted from fiber optic bulkhead adapters. Our new Laser Safety Caps come with a warning symbol on each to visually alert people to potentially harmful exposure to laser light. Each cap has a built-in metal tile to stop laser light up to +18dBm. They are available for SC, LC, ST and FC style. Replace X with the color desired: BLK=Black, BL=Blue, GR=Green, BE=Beige AQ=Aqua.

PART #	DESCRIPTION	PRICE
F1-BLSCST-X25	ST Bulkhead Laser Safety Cap - (25 pk.)	$19.95
F1-BLSCSC-X25	SC Bulkhead Laser Safety Cap - (25 pk.)	19.95
F1-BLSCFC-X25	FC Bulkhead Laser Safety Cap - (25 pk.)	19.95
F1-BLSCLC-X25	LC Bulkhead Laser Safety Cap - (25 pk.)	19.95

METAL CAP & CHAINS

PART #	DESCRIPTION	PRICE
F1-9229-LC	Cap & Chain for LC Mating Sleeves	$2.00
F1-9229-SC	Cap & Chain for SC Mating Sleeves	2.00
F1-9229-ST	Cap & Chain for ST Mating Sleeves	2.00
F1-9229-CH	Cap & Chain for FC Mating Sleeves	1.40

FIS FIBER OPTIC ADAPTER KIT

The FIS fiber optic adapter kit provides installers with all the popular mating sleeves to test or plug in fiber optic cables.

PART #	DESCRIPTION	PRICE
F1-ADPTKIT	FIS Adapter Kit (includes 24 adapters)	$79.00

Perfect for Installers!

KIT CONTENTS (CONTAINS TWO OF EACH):
LC-LC, LC/APC-LC/APC, SC-SC, SC/APC-SC/APC, ST-ST, FC-FC, FC/APC-FC/APC, FC/APC-SC/APC, SC-FC, FC-ST, SC-ST & MU-MU

FEMALE – FEMALE ADAPTERS

SMA-ST ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	PRICE
F1-4732	FIS	SMA 905 - ST Adapter	Metal	$25.00
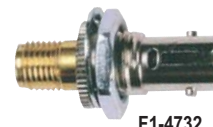
F1-4732

SC-ST ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
F1-19202	FIS	SC - ST Adapter	Metal	Zirconia	$2.95
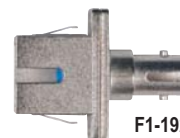
F1-19202

FC-ST ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
F1-29202	FIS	FC - ST Adapter	Metal	Zirconia	$4.00
106172-0000	Molex	FC - ST Adapter	Metal	Zirconia	4.75

F1-29202

SC-FC ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
F1-34202	FIS	SC - FC Adapter	Metal	Zirconia	$3.75

FC/APC-SC/APC ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	STYLE	PRICE
F1-2821CC	FIS	FC/APC - SC/APC	Metal	Square Flanged	$5.00
F1-2822CC	FIS	FC/APC - SC/APC	Metal	Flanged	5.00
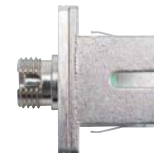
F1-2821CC F1-2822CC

ESCON-ST ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	PRICE
106143-0300	Molex	Escon - ST Adapter	Polymer - Black	$6.40
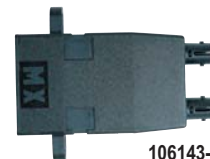
106143-0300

FDDI-ST ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	PRICE
106133-0600	Molex	FDDI-ST Adapter	Polymer - Black	$5.45

106133-0600

SC-LC ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
F1-SCLFF	FIS	SC-LC Adapter	Polymer	Zirconia	$28.95

F1-SCLFF

LC-MU ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
F1-LCMUFF	FIS	LC-MU Adapter	Polymer	Zirconia	$28.95

SC-MU ADAPTERS (FEMALE-TO-FEMALE)
PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
F1-SCMUFF	FIS	SC-MU ADAPTERS	Polymer	Zirconia	$35.00

F1-SCMUFF

NEW

W1FSCA-SCU

W1FSCU-SCA

F1-8705-CSTSCS

F1-8705-CSCFCS

F1-LCSCMF

F1-8194

F1-8294

F1-8494

MALE - FEMALE ADAPTERS

Note: When purchasing these adapters be aware of the fiber size indicated and match to your application.

SC-SC (MALE-TO-FEMALE) (Singlemode)

Traditionally UPC and APC connectors have been incompatiable to mate together due to the air-gap created between the two mating ferrules. This air-gap creates both undesirable high attenuation and high reflection in your network. The FIS M/F UPC-APC adapters allow UPC and APC fiber optic links to be mated together, adding flexibility to your network, while creating less than 1.0dB of Insertion Loss and -50dB of Return Loss. Note: Adding these adapters to an APC fiber optic link will increase your ORL reading to -50dB.

PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
W1FSCA-SCU	FIS	SC/APC Male to SC/UPC Female	Metal	Zirconia	$20.75
W1FSCU-SCA	FIS	SC/UPC Male to SC/APC Female	Metal	Zirconia	$20.75

FC-FC (MALE-TO-FEMALE) (62.5/125µm)

PART #	MFG	DESCRIPTION	HOUSING	SLEEVE	PRICE
F1-8705-FCFC	FIS		Metal	Zirconia	$25.00

FC-FC (MALE-TO-FEMALE) (Singlemode)

| F1-8705-FCFCS | FIS | | Metal | Zirconia | 25.00 |

SC-SC (MALE-TO-FEMALE) (62.5/125µm)

| F1-8705-SCSC | FIS | | Polymer | Zirconia | 25.00 |

SC-SC (MALE-TO-FEMALE) (Singlemode)

| F1-8705-SCSCS | FIS | | Polymer | Zirconia | 25.00 |

ST-ST (MALE-TO-FEMALE) (62.5/125µm)

| F1-8705-STST | FIS | | Polymer | Zirconia | 20.00 |

SMA-ST (MALE-TO-FEMALE) (62.5/125µm)

| F1-8705-SMA | FIS | | Polymer | Zirconia | 20.00 |

SC-ST (MALE-TO-FEMALE) (62.5/125µm)

| F1-8705-CSCST | FIS | | Polymer | Zirconia | 20.00 |

FC-SC (MALE-TO-FEMALE) (Singlemode)

| F1-8705-CFCSCS | FIS | | Polymer | Zirconia | 25.00 |

ST-FC(MALE-TO-FEMALE) (Singlemode)

| F1-8705-CSTFCS | FIS | | Polymer | Zirconia | 25.00 |

ST-SC (MALE-TO-FEMALE) (Singlemode) (pictured)

| F1-8705-CSTSCS | FIS | | Polymer | Zirconia | 25.00 |

SC-FC (MALE-TO-FEMALE) (Singlemode)

| F1-8705-CSCFCS | FIS | | Polymer | Zirconia | 25.00 |

SC-ST (MALE-TO-FEMALE) (Singlemode)

| F1-8705-CSCSTS | FIS | | Polymer | Zirconia | 25.00 |

* 50/125µm and 62.5/125µm available!

SC-LC (MALE-TO-FEMALE) (Singlemode)

| F1-SCLCMF | FIS | | Polymer | Zirconia | 28.95 |

LC-SC (MALE-TO-FEMALE) (Singlemode) (pictured)

| F1-LCSCMF | FIS | | Polymer | Zirconia | 28.95 |

FC-LC (MALE-TO-FEMALE) (Singlemode)

| F1-FCLCMF | FIS | | Polymer | Zirconia | 35.00 |

BUFFERED FIBER ADAPTERS

A Buffered Fiber Adapter (bare fiber adapter) enables you to make a quick, temporary connection to a cleaved bare fiber without the need to connectorize. ST, FC, SC and SMA style adapters available. Not recommended for use with test equipment.

ST BUFFERED FIBER ADAPTER (FOR USE WITH 900µm BUFFER)

PART #	MFG	DESCRIPTION	PRICE
F1-8194	FIS	ST Buffered Fiber Adapter (Pictured)	$39.95

FC BUFFERED FIBER ADAPTER (FOR USE WITH 900µm BUFFER)

PART #	MFG	DESCRIPTION	PRICE
F1-8294	FIS	FC Buffered Fiber Adapter	$36.95

SC BUFFERED FIBER ADAPTER (FOR USE WITH 900µm BUFFER)

PART #	MFG	DESCRIPTION	PRICE
F1-8494	FIS	SC Buffered Fiber Adapter	$36.95

SMA BUFFERED FIBER ADAPTER (FOR USE WITH 900µm BUFFER)

PART #	MFG	DESCRIPTION	PRICE
F1-8394	FIS	SMA 905 Buffered Fiber Adapter (Not Pictured)	$45.00

FIS MALE-TO-FEMALE ATTENUATORS

FIS male-to-female attenuators contain doped fiber suitable for both 1310nm and 1550nm operation. Fixed attenuation values are available in 1dB increments from 1 to 20dB. FIS stocks standard 5, 10, 15, 20dB attenuation levels in most styles. TO SPECIFY ATTENUATION LEVEL REPLACE "XX." With desired attenuation level ex. 01=1dB, 02=2dB etc. 03=3dB, 04=4dB,etc,

Quantity Discount Pricing Available!
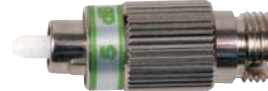
FC/UPC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-8721CXX	FC/UPC Male to Female Attenuator	$17.95

FC/APC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-8751CXX	FC/APC Male Female Attenuator	$21.95

SC/UPC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-8731CXX	SC/UPC Male to Female Attenuator	$17.95
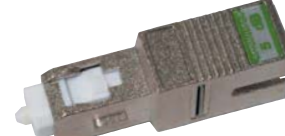
SC/APC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-8741CXX	SC/APC Male Female Attenuator	$21.95

1 to 20dB Available!

MU/UPC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-9521CXX	MU/UPC Male to Female Attenuator	$19.95

LC/UPC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-8761CXX	LC/UPC Male to Female Attenuator	$18.95

ST/UPC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-9621CXX	ST/UPC Male to Female Attenuator	$17.95

LC/APC MALE-TO-FEMALE ATTENUATOR

PART #	DESCRIPTION	PRICE
F1-8771CXX	LC/APC Male to Female Attenuator	$21.95

FIS BULKHEAD FEMALE-TO-FEMALE ATTENUATORS

FIS Bulkhead Attenuators utilize a wavelength sensitive neutral density filter to achieve attenuation. Available in 5, 10, 15 and 20dB values. Select from 1310nm or 1550nm options.

ST ATTENUATOR 1310nm

PART #	DESCRIPTION	PRICE
F1-8121S	FIS 5dB ST Attenuator for 1310nm	$10.95
F1-8122S	FIS 10dB ST Attenuator for 1310nm	10.95
F1-8123S	FIS 15dB ST Attenuator for 1310nm	10.95
F1-8124S	FIS 20dB ST Attenuator for 1310nm	10.95

ST ATTENUATOR 1550nm

PART #	DESCRIPTION	PRICE
F1-8125S	FIS 5dB ST Attenuator for 1550nm	$10.95
F1-8126S	FIS 10dB ST Attenuator for 1550nm	10.95
F1-8127S	FIS 15dB ST Attenuator for 1550nm	10.95
F1-8128S	FIS 20dB ST Attenuator for 1550nm	10.95

FC ATTENUATOR 1310nm

PART #	DESCRIPTION	PRICE
F1-8221S	FIS 5dB FC Attenuator for 1310nm	$11.95
F1-8222S	FIS 10dB FC Attenuator for 1310nm	11.95
F1-8223S	FIS 15dB FC Attenuator for 1310nm	11.95
F1-8224S	FIS 20dB FC Attenuator for 1310nm	11.95

FC ATTENUATOR 1550nm

PART #	DESCRIPTION	PRICE
F1-8225S	FIS 5dB FC Attenuator for 1550nm	$12.50
F1-8226S	FIS 10dB FC Attenuator for 1550nm	12.50
F1-8227S	FIS 15dB FC Attenuator for 1550nm	11.95
F1-8228S	FIS 20dB FC Attenuator for 1550nm	11.95

SC ATTENUATOR 1310nm

PART #	DESCRIPTION	PRICE
F1-8321S	FIS 5dB SC Attenuator for 1310nm	$15.50
F1-8322S	FIS 10dB SC Attenuator for 1310nm	9.95
F1-8323S	FIS 15dB SC Attenuator for 1310nm	9.95
F1-8324S	FIS 20dB SC Attenuator for 1310nm	9.95

SC ATTENUATOR 1550nm

PART #	DESCRIPTION	PRICE
F1-8325S	FIS 5dB SC Attenuator for 1550nm	$10.95
F1-8326S	FIS 10dB SC Attenuator for 1550nm	18.95
F1-8327S	FIS 15dB SC Attenuator for 1550nm	10.95
F1-8328S	FIS 20dB SC Attenuator for 1550nm	10.95

F1-0045

FIS CLIP-ON VARIABLE ATTENUATOR

The Clip-On Variable Attenuator is a completely passive device, which works by physical attenuation of a 3mm jacketed singlemode cable. May be used with smaller jacket sizes however, attenuation performance may vary. It can be attached at any point in a cable, providing attenuation levels from 0 to >47dB at 1550nm (0 to >21dB at 1310nm) and low back reflection. Good for hundreds of uses, and leaves no lasting effects on the cable. Dimensions: Length = 1 1/2", Diameter = 3/4"

PART #	DESCRIPTION	PRICE
F1-0045	Clip-On Variable Attenuator	$49.00

F1-10015

FIS 3-STEP ATTENUATORS

The FIS 3-Step Attenuator is a completely passive device and achieves attenuation by exceeding the recommended bend radius specifications of the fiber cable without introducing back-reflections. This unit is designed for 3mm jacket types and a wavelength of 1310nm, but can also be used with various jacket sizes and wavelengths with varying attenuation levels. Use any combination of the three loops to achieve desired attenuation levels.

PART #	DESCRIPTION	PRICE
F1-10007	3-Step Attenuator 2-7dB (1310nm Singlemode)	$29.95
F1-10015	3-Step Attenuator 5-15dB (1310nm Singlemode)	29.95
F1-10020	3-Step Attenuator 5-20dB (1310nm Singlemode)	29.95

FIS IN-LINE FIXED ATTENUATORS

The FIS In-Line Fixed Attenuator is built to meet your low reflection attenuation requirements. Each cord is custom built to accommodate up to 10 meters of cable and the connector styles of your choice. The 5dB and 10dB versions hold a +/-.5dB tolerance with the 15dB and 20dB holding a 1dB tolerance. Please specify operating wavelength. The in-line attenuator provides negligible back reflection and is therefore recommended for use with UPC or APC style patchcords.

PART #	DESCRIPTION	PRICE
F1-ATS + 5dB or 10dB	In-line Attenuator	patchcord price + $39.00
F1-ATS + 15dB or 20dB	In-line Attenuator	patchcord price + 49.00
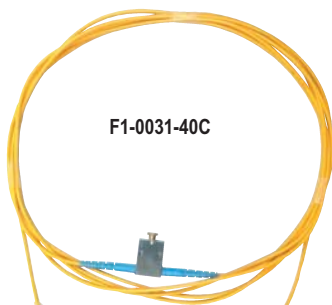
F1-0031-40C

VARIABLE ATTENUATORS

This Variable Attenuator uses collimator lens technology enabling the user to change attenuation through the twist of a top-mounted screw. Use this variable attenuator to simulate the loss in a fiber system or testing your system's dynamic range. A power meter and light source can be used to determine the fixed attenuation value your system requires. The attenuator has a 0.8dB typical insertion loss and is available in a 2 meter length and may be connectorized. A low back reflection style is prepared with ultra PC connectors maintaining the internal low back reflection characteristics. Attenuation range: 0.8dB to 60dB.

PART #	DESCRIPTION	PRICE
F1-0031-40C	SM Attenuator 8-9µm Core (2 Meter Unconnectorized) Return Loss <-40dB	$170.00
F1-1033-35C	MM Attenuator 62.5µm Core (2 Meter Unconnectorized) Return Loss <-35dB	170.00
F1-0031-LBR	SM Low Back Reflection Attenuator with FC/UPC Connector Return Loss <-50dB	235.00

F1-2250

AIR-GAP VARIABLE ATTENUATORS

The Air-Gap Variable Attenuator has a ceramic alignment sleeve that provides a low insertion loss of .15dB and can be used on both multimode and singlemode applications. Included tool provides ability to increase attenuation level to desired "level". Device may replace mating sleeve at the patchpanel, enabling variable attenuation levels to be introduced to the system. Attenuation range is 0dB to 20dB.

PART #	DESCRIPTION	PRICE
F1-2250	Air-Gap Variable ST Attenuator	$55.00
F1-2251	Air-Gap Variable FC Attenuator	55.00

TYPICAL ATTENUATION LEVELS
(Installed At Light Source)

COLOR	850nm (dB)	1300nm (dB)
Red	2.5	7.4
Blue	3.6	9.1
Green	4.8	10.2
Gold	5.5	11.3
Silver	6	11.7

FIS ST, SMA OR FDDI FIXED ATTENUATORS

The washer style attenuator is placed at the light source, spacing the mated connectors to cause attenuation. The attenuators of various thicknesses are not assigned specific dB values, several factors will dictate actual loss.

PART #	DESCRIPTION	PRICE
A450-FIS	ST Attenuators (Qty. 5) 1 Each Color	$10.00 set
A40D-FIS	SMA Attenuators (Qty. 5) 1 Each Color	10.00 set
A450-FDDI	FDDI Attenuators (Qty. 10) 2 Each Color	20.00 set
A450-20	ST Attenuators (Qty. 10), State Color	17.95
A40D-20	SMA Attenuators (Qty. 10), State Color	17.95

CONSUMABLES

Air Ship Available

F1-6714MPO

DATA CENTER CLEANING STATION

The FIS Fiber Optic Cleaning Station is a unique new product that provides immediate access to cleaning supplies for technicians. These cleaning kits are wall mountable similar to First Aid kits found throughout many facilities. Open the top cover and find cleaning notes for technicians not familiar with fiber optics. Kits include cleaning instruments for both 2.5mm and 1.25mm ferrules on patchcords and adapters in the back plane of enclosures. Optional MPO/MTP cleaning can be added to kit as well. Special edition and custom kits are available. Standard kit contents: (100) 4"x4" clean dry wipes, 2 oz. Cleaning Solution, Auto-Advance Connector cleaner, 2.5mm & 1.25mm back plane ferrule cleaning tools. Optional kits with MPO/MTP cleaning tool or choice or IBC™ Cleaners/AFL One Click Cleaners.

F1-8328C

F1-8326

F1-8327

FIBER OPTIC DISPOSAL UNIT

A handy and safe solution for disposing of cleaved fiber ends. Perfect for on-site installers. Choose from three sizes to accommodate any tool kit and splice/connector station. The large unit has a snap on hinge cover, while the standard and mini snap containers have traditional slide tops for easy opening and closing.

PART #	DESCRIPTION	PRICE
F1-8328C	Large Fiber Optic Disposal Unit w/Snap Top (3 1/2" W x 5 1/2" H)	$5.95
F1-8327	Standard Fiber Optic Disposal Unit w/Slide Top (1 7/8" W x 4 3/8" H)	3.95
F1-8326	Mini Fiber Optic Disposal Unit w/Slide Top (1 5/8" W x 1 1/2" H)	2.95

F1-6709

FIS FIBER OPTIC CLEANING PEN

Use this cleaning pen to apply solution to cleaning wipe for removal of contaminants from optical fiber.   Cleaner can use used with swabs to clean adapters too.

PART #	DESCRIPTION	PRICE
F1-6709	FIS Fiber Optic Cleaning Pen	$9.35

9006

OPTICAL COUPLANT

To reduce optical loss within fiber optic mechanical splices and connectors, apply optical couplant at the interface of the two mated fibers. This minimizes loss by reducing the difference in the index of refraction between the mated fibers. Available as liquid.

PART #	DESCRIPTION	PRICE
9006	Liquid Matching Couplant (.2 oz., Syringe)	$14.50

(A)   **(B)**

CANNED AIR

Before removing a fiber optic connector for inspection or cleaning, make sure the area around the connector is free from dust. The FIS Micro Duster includes an extension nozzle to provide a powerful blast of air to remove particles from areas that are otherwise inaccessible. Competitively priced. Shipping restrictions and fees may apply.

PART #	DESCRIPTION	PRICE
F1-1007S	FIS Canned Air (10oz.)	$7.95
F1-00152	FIS Canned Air (8oz.) Economy	4.50

F1-8265

PIANO WIRE

A smart way to save a connector when a fiber breaks inside a ferrule during connectorization. Also an excellent tool to remove broken fiber from bare fiber adapters. The 0.004'' (110µm) diameter wire is also used in connectorization process to apply epoxy to protruding fiber at ferrule. Sticky colored tabs provided to hold wire.

PART #	DESCRIPTION	PRICE
F1-8265	FIS Piano Wire	$4.95

F1-0001V

MATCHING GEL

To reduce optical loss within fiber optic mechanical splices and connectors, apply optical couplant at the interface of the two mated fibers. This minimizes loss by reducing the difference in the index of refraction between the mated fibers. 0.40oz

PART #	DESCRIPTION	PRICE
F1-0001V	FIS Matching Gel	$25.00

FIS DISPENSING BOTTLE

PART #	DESCRIPTION	PRICE
F1-007PL	8 oz. Automatic Alcohol Dispensing Bottle (Plastic) (A)	$6.75
F1-007P	8 oz. Automatic Alcohol Dispensing Bottle (Amber Glass) (B)	6.75

F1-1007S   **F1-00152**

Improved Cleaning Formula

Air Ship Available

F1-6706

F1-0068

F1-000728

HAZMAT FEES MAY APPLY GALLON ONLY

GROUND SHIPPING REQUIRED

FIBER OPTIC CLEANING SOLUTION

This fast-acting cleaner can be used with dry fiber wipes or tissues to remove dirt and soils from optical fibers prior to termination and splicing or to clean the end of connector ferrules.

PART #	DESCRIPTION	PRICE
F1-6706	Fiber Optic Cleaning Solution	$8.00

ISOPROPYL ALCOHOL PRODUCTS

This 99% reagent grade isopropyl is used in cleaning fiber or connector end faces for better transmission performance. Also offered are pre-filled foam swabs and 4oz. dispensing bottles available in glass or plastic. Ground Shipping Only. Hazmat Fees May Apply.

PART #	DESCRIPTION	PRICE
F1-0068	1 Case of (6) 4 oz. Canned Alcohol	$18.95
F1-0007SP	1 Case of (6) 4 oz. Alcohol Bottles with Spray Top	27.95
F1-0007	1 Case of (6) 4 oz. Alcohol Squeeze Bottles	12.75
F1-000728	Bottled Alcohol (28 oz.)	5.95
F1-1007-G	1 Case Alcohol (4 gallons per case)	82.00

F1-332911

GROUND SHIPPING REQUIRED

Air Ship Available

POC03M

3M NOVEC™ PERFORMANCE CLEANER

3M Novec contact cleaner is a non-flammable, high performance cleaner/ degreaser used to remove contamination from fiber optic connectors. Non-ozone depleting, free of nPB, HFC's and HAPS and wide margin of safety make Novec a great choice for optical and electrical cleaning. Ground shipping required.

PART #	DESCRIPTION	PRICE
F1-332911	3M Novec™ Contact Cleaner	$18.75

FIBER OPTIC SPLICE & CONNECTOR CLEANER

Ideal for cleaning ferrules in connector bulkheads as well as individual fiber optic connectors. This fast-drying, optical-grade cleaning fluid can be used with wipes or cleaning sticks for wet/dry cleaning without chemical residue. Three-way dispenser enables you to select spray mode, dampening mode or wetting mode. Compatible with many cartridge style and box style connector cleaners. Travel safe, non-flammable, non-regulated, and non-hazardous. No hazmat fees!

PART #	DESCRIPTION	PRICE
POC03M	Splice & Connector Cleaner	$15.00

POLYWATER SQUEEKYKLEEN™

New SqueekyKleen™ cleans and fans fiber in two wipes without alcohol, saving time and money. Hear the difference! No follow-up with alcohol required to get fibers squeaky clean and separated when prepping for splicing. SqueekyKleen™ is less harsh on hands and reduces chemical odors and vapor concentrations to a minimum in splice trailers and vaults. SqueekyKleen's™ unique formulation and specially designed high-performance towelette work to remove icky pic from the entire surface of loose-tube or ribbon fibers, leaving no residue. SqueekyKleen™ helps keep splice equipment clean of contamination for better fiber alignment and splice quality. Safe on acrylate and Mylar®.

PART #	DESCRIPTION	PRICE
TC-16LF	Telcom Cleaner with Flip Top 6 oz.	$12.35
TC-35LF	Telcom Cleaner with Flip Top 1 Qt	15.30
TC-128	Telcom Cleaner 1 gallon	48.50

TC-128

SHIPPING RESTRICTIONS & FEES MAY APPLY

TC-35LF

PT TECH D'GEL SOLVENTS

D'Gel Cable and Tool Cleaner is a full strength solvent specifically developed for removing cable gels, blocking compounds, Icky Pic, and C-cement. It also removes grease, tar, oil, wax, resin and gum from copper and fiber optic cable. It works equally well on painted surfaces and machine equipment. D'Gel does not contain TCE, HCFC's or methylene chloride.

PART #	DESCRIPTION	PRICE
F1-1011	12 Pack Box of Premoistened Tissues	$27.25
F1-1091G	1 Gallon Jug	46.50
F1-1091S	32 oz. Spray Bottle	12.95

SHIPPING RESTRICTIONS & FEES MAY APPLY

F1-1091S

PREMIER HAND CLEANERS

Premier hand cleaner towels remove Icky-pic, grease, oil, paint and more from hands, tools and equipment. 72 towels per bucket. Ground shipping required.

PART #	DESCRIPTION	PRICE
7333157500	Premier Hand Cleaners	$15.00

7333157500

GROUND SHIPPING REQUIRED

HAND CLEANER TOWELS

When working with optical fiber, it is good practice to keep hands clean to ensure they are free of contaminates. However, soap and water are not always available on the jobsite. SCRUBS pre-moistened towels provide the answer, removing even hard to clean industrial soils and grease without water. Pleasant citrus fragrance and gentle on skin.

PART #	DESCRIPTION	PRICE
42272	Hand Cleaner Towels	$16.50

42272

Consumables

www.fiberinstrumentsales.com

97

Consumables

F1-1004

PRE-MOISTENED ALCOHOL WIPES

Fast evaporating Alcohol pre-moistened wipes can be used on optical fiber to remove dirt, dust and oils. Contains: Isopropanol

PART #	DESCRIPTION	PRICE
F1-1004	FIS Pre-Moistened Alcohol Wipes (50 pk.)	$9.95

F1-1010

PRE-MOISTENED DEGREASER WIPES (ICKY-PIC CLEANER)

FIS new Icky-Clean wipes can be used with outside plant optical or copper cables. Utilize to remove Icky-Pic or gels from cables prior to splicing or termination. Great to clean up tools as well.

PART #	DESCRIPTION	PRICE
F1-1010	FIS Pre-Moistened Degreaser Wipes (12 pk.)	$10.50
F1-1010-100	FIS Pre-Moistened Degreaser Wipes (100 pk.)	80.00

F1-1091T

POLYWATER HYDRASOL® SOLVENTS (ICKY-PIC CLEANER)

HydraSol® is a water-based solvent cleaner that is amazingly effective at dissolving and removing cable filling greases (Icky Pic). This economical product easily rinses off hands and tools. Our tear-resistant, presoaked towelette comes in an easy-open foil pack and is especially effective for smaller cleaning jobs and fiber optic splicing.

PART #	DESCRIPTION	PRICE
F1-1091T	HydraSol® Premoistened Tissues (12 pk.)	$15.00
F1-1091GP	HydraSol® 1 Gallon Jug	26.00

FO-1

SHIPPING RESTRICTIONS & FEES MAY APPLY

HM

HAZMAT FEES MAY APPLY

POLYWATER ANHYDROUS ALCOHOL

Type FO™ is great for cleaning glass fiber or connector end faces for better light transmission performance. Type FO™ quickly removes dust, oils, and contaminants, while leaving no residue. The anhydrous alcohol in FO™ has essentially no water content. Type FO™ is available in a convenient pre-saturated towelette. The towels are durable and non-linting. Pre-saturated wipes are a convenient option for field use. The package limits vapor exposure and eliminates spill hazards. There is no need to transport bulk quantities of flammable alcohol. Hazmat Fees May Apply.

PART #	DESCRIPTION	PRICE
FO-1	Type FO™ Alcohol Prep Wipe (50 pk.)	$30.95
FO-16	Type FO™ 16-oz Alcohol Fiber Cleaner	8.95

F1-TC1

POLYWATER SQUEEKYKLEEN™ (ICKY-PIC CLEANER)

New SqueekyKleen™ cleans and fans fiber in two wipes without alcohol. SqueekyKleen™ is less harsh on hands, reduces chemical odors and vapor concentrations to a minimum in splice trailers and vaults. Unique formulation and specially designed high-performance towelettes work to remove pik from the entire surface of loose-tube or ribbon fibers, leaving no residue. Safe on acrylate and Mylar®.

PART #	DESCRIPTION	PRICE
F1-TC1	Telcom Cleaner-Saturated Wipe (12 pk.)	$16.95

NEW

WCS800

WCS100

STICKLERS CLEANING BOX

Perfectly packaged for factories making jumpers and patch cords, this tool is designed for high-speed, high-volume production. Featuring a high-modulus fabric that will not lint, tear, or shred and allows for 3,200+ cleanings per roll for the large box and 400+ cleanings per roll for the small box.

PART #	DESCRIPTION	PRICE
WCS800	Sticklers Large Cleaning Box	$155.00
WCS100	Sticklers Small Cleaning Box	59.00

SPR1

FERRULEPRO™

FerrulePro™ is the world's first fully automated benchtop fiber connector cleaner for laboratory and cable production environments. FerrulePro™ automates the final cleaning of all types of terminated fiber products, a critical task where performance once depended largely on the production line worker's skill. Now, fiber connectors can be cleaned in 3 seconds cycle - eliminating the need for re-cleaning after post production inspection.

PART #	DESCRIPTION	PRICE
SPR1	Seikoh Giken FerrulePro™	$1,695.00
SPRP10K	Seikoh Giken FerrulePro™ Standard Cassette Replacement	115.00

FIS FIBER OPTIC WIPES

The FIS low lint tissues can be used dry or with cleaning solvents to clean ferrule endfaces or prepare fibers for termination and/or splicing.

PART #	DESCRIPTION	PRICE 1-11	PRICE 12+
F1-6705	Low Lint Wipes (280 wipes per box)	$1.75	$1.60
F1-6705C	Case of (60 Boxes)	89.00	83.00

F1-6705

FIS FIBER OPTIC 4"x4" NON-WOVEN WIPES

Non-Woven cloth wipes can be used alone or with alcohol or solvents. Provides superior cleaning of fiber optic connector ferrules without risk of scratching or lint residue.

PART #	DESCRIPTION	PRICE
F1-6702	Non-Woven Dry Wipes 100 per pack 4" x 4"	$3.20
F1-6704	Non-Woven Dry Wipes 1,200 per pack 4" x 4"	25.00

F1-6702

KIM WIPES

Kim Wipes are the standard for use alone or with alcohol or solvents. Kim Wipes provide superior cleaning of fiber optic connector ferrules without risk of scratching. 280 wipes per box

PART #	DESCRIPTION	PRICE 1-11	PRICE 12+
34-155	Individual box (4.4" x 8.4")	$1.85	$1.75
34-155C	Case (60 per case)	105.00	99.00
34-256C	Large Sheet Kim Wipes - 15 Boxes per case (14.7" x 16.6")	105.00	99.75

34-155

CLEANWIPES

High purity CleanWipes™ are lint free fabric wipes engineered for optical applications. Excellent for wet/dry cleaning of optical fiber, connector end faces, lenses, mirrors, LCD displays and test equipment. The mini tub keeps the wipes clean and portable, without the expense of cartridge-style packaging. 90 sheets

PART #	DESCRIPTION	PRICE
WFW	CleanWipes™	$8.00

WFW

FIBER-CLEAN® TOWELETTES

Remove Icky Pic and water blocking compounds with Fiber-Clean® Towelettes. Each pre-moistened tissue enables installers to clean and prepare optical fibers for connectorization and splicing. There are 45 tissues in each Fiber-Clean® "pop-up" Dispenser. Ground shipping required.

PART #	DESCRIPTION	PRICE
FC451	Fiber-Clean Towelettes	$16.95

FC451

POLYWATER GRIME-AWAY™

Grime-Away™ wipes are heavy-duty towelettes premoistened with a multi- purpose cleaning solution. Grime-Away™ moisturizes and softens hands while cleaning tools and surfaces. Grime-Away™ towels feature a textured side to quickly remove greases, dirt, and grime. They also feature a soft side to be gentler on skin.

PART #	DESCRIPTION	PRICE
HTC-D72	Polywater Grime-Away	$18.25

HTC-D72

STICKLERS CLEANING KITS

The Sticklers Fiber Optic Cleaning Kit has been engineered to help field techs clean fiber networks quickly, reliably and inexpensively. This kit puts the time-saving Sticklers cleaners in a "go anywhere, clean anything" package, giving each tech all the tools they need to get the job done right. The Kit contains LED flashlight, rugged carry bag, cleaners, wipes and swabs. Plus, extra room for other supplies and tools. The military version also includes S16 swabs for military connectors: MIL-C-28876, MIL-C-38999, D4, MT-RJ. All Sticklers kits are non-haz and can ship air without any restrictions.

PART #	DESCRIPTION	PRICE
FK03	Sticklers Fiber Optic Cleaning Kit	$98.00
FK05	Sticklers Military-Ready Cleaning Kit (Not Pictured)	98.00

FK03

DID YOU KNOW?

Within an optical network, clean fiber optic components are a requirement for quality connections between active fiber optic equipment and passive components. One of the most basic and important procedures for the optimal performance is to clean all of the fiber optic connections. Any contamination on the ferrule endface of a fiber connection can cause a failure of the component or failure of the whole system. Even microscopic dust and dirt particles can cause a variety of problems for optical connections. A particle that partially or completely blocks the optical fiber's core can generate strong back reflections, which can cause instability in the system. Dust and dirt particles trapped between two fiber faces can scratch the glass surfaces. Even if a particle is only on the cladding or the edge of the endface, it can cause an air gap or misalignment between the fiber cores, which can induce additional loss in the connection and contribute to the total link loss in the system.

• A 1µm dust particle on a singlemode core can block up to 1% of the light (a 0.05dB loss).
• A 9µm dust or dirt particle is still too small to see without a microscope, but it can completely block the fiber core of singlemode fiber. By comparison a typical human hair is 50µm to 75µm in diameter, as much as eight times larger.

So, even though dust might not be visible, it is still present in the air and can deposit onto the connector. Dust and dirt are not the only types of loss inducing contaminations, these may also include such materials as:
• Oils (frequently from human hands)
• Film residues, from vapors in the air
• Coatings, left after water or other solvents evaporate away

These contaminants can be more difficult to remove than dust particles and can also induce loss and damage if not removed with proper cleaning procedures.

FIS FIBER SWIPE500

This unique handheld connector ferrule end face cleaner removes dust, dirt and contaminates prior to mating a fiber optic connection. The fiber optic cleaner fits well in the technician's hand with a convenient trigger that automatically opens the top cleaning window to expose a single microfiber cleaning slot. Simply swipe the ferrule end-face with light pressure against the microfiber with the directional arrow and then release the trigger.

F1-6712

PART #	DESCRIPTION	PRICE
F1-6712	FIS Fiber Swipe500	$39.95
F1-6713	Replacement Reel	13.00

FIS CONNECTOR CLEANER

F1-7020C

Choose the FIS Hand Held Connector Cleaner as an alternative to alcohol or solvent and wipes. The cartridge offers lint-free, clean room grade cleaning media which effectively removes dirt, dust, oil, grease and debris from connector end faces. A new resilient rubber pad beneath the cleaning surface prevents scratching, and a sliding cover protects the cleaning media from contamination when not in use. Reel refills available.

PART #	DESCRIPTION	PRICE
F1-7020C	FIS Connector Cleaner Universal (400 cleans)	$15.00
F1-7021C	FIS Cleaning Media Replacement Reel (20 ft.)	4.00

F1-6710

F1-6711

FIS ROTOSWIPE

The FIS Rotoswipe ferrule cleaner is convenient for cleaning connector endfaces from inside bulkheads or mating sleeves without removing connector from the back panel. Simply choose from the 2.5 or 1.25mm ferrule version, insert into the mating sleeve until cleaning tip with fabric gently touches the ferrule endface, then turn the gray rotator dial 2-3 clicks clockwise. Inspect for cleanliness if desired with a video microscope. You can utilize this cleaner to clean patchcord endfaces as well, but you need to use it with an individual mating sleeve to plug ferrule into something for cleaning tip to align properly. No refill cartridges available.

PART #	DESCRIPTION	PRICE
F1-6710	FIS 2.5mm ROTOSWIPE Cleaner	$39.95
F1-6711	FIS 1.25mm ROTOSWIPE LC Cleaner	39.95

FIBER OPTIC SWABS

F1-0005   F1-25184   F1-25123   F1-0006

Examples of Tip Construction
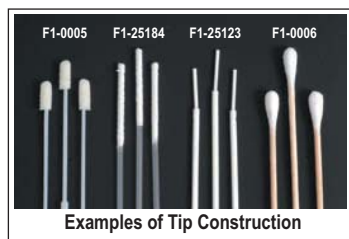
When cleaning connector endfaces inside bulkheads, mating sleeves and other recessed areas, you'll appreciate the extended reach that our 2.5mm and 1.25mm swabs provide. Choose from wrapped swabs, foam swabs or general purpose cotton swabs. NOTE: The General Purpose Cotton Swabs do not fit into 2.5mm or 1.25mm adapters.

PART #	DESCRIPTION	PRICE
F1-25184	2.5mm Wrapped Swabs (5pk)	$3.50
F1-25183	2.5mm Wrapped Swabs (100pk)	40.00
F1-25123	1.25mm Wrapped Swabs (5pk)	3.50
F1-25123B	1.25mm Wrapped Swabs (100 pk)	40.00
F1-0005	2.5mm Mini Foam Swabs (50 pk)	10.50
F1-0006	General Purpose Cotton Swabs 1 Bag (100 pk)	3.30
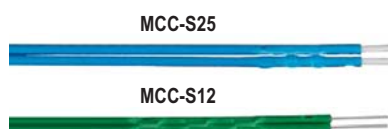
CONNECTOR CLEANING STICKS

MCC-S25

MCC-S12

MicroCare cleaning sticks use a fibrous sintered polymer tip that is molded, not hand wound. These cleaning sticks deliver fast and consistent cleaning, even inside alignment sleeves. Compatible with a wide variety of solvents on today's optical market. 50 sticks per clamshell.

PART #	DESCRIPTION	PRICE
MCC-S25	2.5mm Clamshell (50 pk)	$29.75
MCC-S12	1.25mm Clamshell (50 pk)	29.75
MCC-VS	Combo Pack (20) 2.5, (10) 1.25mm and (20) Military Termini (Not Shown)	29.75

CLETOP CLEANING SWABS

F1-0401

PART #	DESCRIPTION	PRICE
F1-0401	Cletop Stick 1.25mm (5 pk)	$5.00
F1-0400	Cletop Stick 2.5mm (5 pk)	5.00
F1-0402	Cletop Stick 2.0mm MIL-AERO Application (5 pk)	5.00
F1-0403	Cletop 2 Sided Stick (2.0mm & 2.5) (5 pk)	10.50

F1-6364

OPTIPOP CLEANING SWABS

PART #	DESCRIPTION	PRICE
F1-636510P	Optipop Stick Cleaner 1.25mm (10 pk)	$7.00
F1-636610P	Optipop Stick Cleaner 2.5mm (10 pk)	7.00
F1-636310	Optipop Pipe Cleaner 1.25mm (10 pk)	10.25
F1-6364	Optipop Pipe CLeaner 2.5mm (5 pk)	5.35

F1-0106

BI-FURCATED ALCOHOL SWABS

Pre-Moistened Alcohol foam swabs are convenient for cleaning optical fibers. Ground shipping required.

PART #	DESCRIPTION	PRICE
F1-0106	Alcohol Swabs (10 pk)	$10.95

Consumables

F1-0700

F1-6270S

FCRC **F1-6367**

CLETOP CLEANING PRODUCTS

PART #	DESCRIPTION	PRICE
F1-6270	Cletop Connector Cleaner - SC, FC, ST, E2000 Replacement Tape F1-6271	$100.00
F1-6270MTRJ	Cletop MTRJ Male Cassette w/White Tape (Replacement Tape F1-6277)	110.00
F1-6270MT	Cletop MTP/MPO Male Cassette w/ White Tape (Replacement Tape F1-6277)	110.00
F1-6210MF	Cletop MTRJ/MTP Female Cassette w/ White Tape (LC, MU also) (Replacement Tape F1-6277)	110.00
F1-6271	Cletop Woven Film Replacement Reel Blue Tape	26.95
F1-6277	Cletop Woven Film Replacement Reel White Tape	26.95
F1-6270S	Cletop-S Connector Cleaner (A) with SC, FC, ST, E2000 (F1-0700)	95.00
F1-6270SMT	Cletop-S Connector Cleaner for LC, MU, Female MTP and MT-RJ (F1-0701)	95.00
F1-0700	Cletop-S Tape Cartridge Blue Tape (B)	26.95
F1-0701	Cletop-S Tape Cartridge White Tape	26.95

OPTIPOP CLEANING PRODUCTS

PART #	DESCRIPTION	PRICE
FCRC	Optipop Fiber Optic Connector Cleaner (25 ft.)	$70.00
FCRR	Optipop Cassette Refill	25.00
FCRCMTP	Optipop MTP/MPO Male Fiber Optic Connector Cleaner	70.00
FCRCMTRJ	Optipop MTRJ Male Fiber Optic Connector Cleaner	70.00
F1-6367	Card Cleaner (Includes 10 sheets)	30.00
F1-6368	Card Cleaner Refill (10 Sheets)	17.95

IBC™ BRAND CLEANING TOOLS SERIES

The US Conec IBC™ Brand Cleaners are mechanical cleaning tools designed to clean connectors residing in an adapter or faceplate and unmated connectors. The IBC™ Brand Cleaning tools use a novel dry cleaning strand to gently sweep and lift away dust and residues from the connector end face.

Features

• Audible CLICK to alert the operator when tools is fully engaged
• Over 525+ engagements per unit
• Dry cleaning strand eliminates the need for solvents to be effective
• Impact resistant to survive drops over 1.5M

9392 SC

9393 LC

12910 H-125

13310 M250

Z25

Z125

PART #	DESCRIPTION	PRICE
9392	IBC™ Cleaner SC	$65.00
9393	IBC™ Cleaner LC	65.00
12910	IBC™ Cleaner H-125	115.00
12926	IBC™ M20 Cleaner SMTPE 304M	75.00
13310	IBC™ Cleaner M250 for TFOCA II®	85.00
Z25	IBC™ Mini-Clean 2.5mm (SC, ST, FC, E2000)	65.00
Z125	IBC™ Mini-Clean 1.25mm (LC, MU)	65.00
14303	IBC™ Brand Cleaner LC	87.50
14011	IBC™ Brand Cleaner MTRJ	87.50

AFL ONE-CLICK CLEANER

The One-Click Cleaner is an easy-to-use option for cleaning connectors in adapters. Simply insert the One-Click Cleaner into an adapter and push until an audible "click" is heard. The One-Click Cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently, cleaned. The One-Click Cleaner is a must-have for field technicians. Small enough to fit in a shirt pocket and a great addition to cleaning kits.

85001MZ

85002MZ

PART #	DESCRIPTION	PRICE
85001MZ	SC, ST, FC 2.5mm ferrules	$65.00
85002MZ	LC/MU 1.25mm ferrules	65.00

MTP/MPO IBC™ BRAND CLEANER

The MTP IBC™ (In Bulkhead Cleaner) is the first dry cloth cleaner specifically designed to clean the MTP/MPO while inside of an adapter, face-plate, or bulkhead. The unique design enables cleaning of either male (with pins) or female (without pins) MT ferrules.

PART #	DESCRIPTION	PRICE
F1-7104	MTP/MPO Bulkhead Cleaner	$75.00

FERRULE MATE™

Wouldn't it be great if you could limit your connector cleaning supplies to one versatile tool? You can, with Ferrule Mate™. The device cleans recessed fiber optic adapters as well as individual connectors. With the push of a button, the tool forwards and rotates the cleaning cloth. Cloth provides approximately 350 swipes, with a cost as low as 18 cents per cleaning. Use the SFM-250 for SC, FC, and ST. Use the SFM-125 for MU and LC.

SFM-250

SFM-125

PART #	DESCRIPTION	PRICE
SFM-250	Ferrule Mate™ 2.5mm Ferrules	$62.50
SFM-125	Ferrule Mate™1.25mm Ferrules	62.50

Consumables

www.fiberinstrumentsales.com

F1-9772

FIS CONNECTOR HEAT OVEN

To prevent epoxy "out gassing" that can cause fiber fractures and other connector problems, it is important that a connector curing oven provide reliable operation. The FIS Connector Oven is preferred by many installers because it is simple, dependable, and easy-to-use.

PART #	DESCRIPTION	PRICE
F1-9772	24 Port Heat Oven (FC/ST/D4/SMA/SC) 4011-0000 Included	$225.00
F1-977220	24 Port Heat Oven (220 V) (FC/ST/D4/SMA/SC)4011-0000 Included	225.00
9091	MU/LC Holding Block	70.00
9090	Universal Holding Block (side A - ST, FC, SMA, D4, side B - Biconic, SC)	59.00
9092	MTRJ/MTP Ferrule Holding Block	70.00
4011-0000	24 Port Block (FC,ST,D4,SMA,SC)	55.00
9451S	Curing Stand	25.00
8032-0000	Thermometer	15.35

9092 MTRJ/MTP **9091 MU/LC** **9090 Universal**

Side A   Side B

OPTIONAL CURING STAND SHOWN
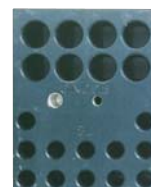
80879000M

OVEN PROTECTION SLEEVES

Use to prevent breakage of protruding fiber during connector heat oven curing process. These oven protection sleeves are reusable.

PART #	DESCRIPTION	PRICE
80879000M	Oven Protection Sleeve 2.5mm Ferrules (Each)	40¢
867730011	Molex Oven Protection Sleeve 1.25mm Ferrules (Each)	$1.75

FIS HOT MELT AND DUAL PURPOSE HEAT OVENS

Sometimes, you may use epoxy-style connectors. Other times, you may prefer hot-melt connectors. This Dual Purpose Oven lets you use both! This unit includes an 8-port epoxy heater block, with temperature settings up to 100ºC, and a 6-port Hot Melt block factory set at 245ºC, which accepts 3M Hot Melt connectors. Each block has its own switch.

PART #	DESCRIPTION	PRICE
F1-9110	FIS 6 Port Hot Melt Oven (110v) (pictured)	$296.00
F1-9110220	FIS 6 Port Hot Melt Oven (220v) (not pictured)	430.00
F1-9130	FIS 12 Port Hot Melt Oven (not pictured)	345.00
F1-9150	FIS 14 Port Dual Purpose Hot Melt / Epoxy Oven (not pictured)	345.00
F1-5225	FIS ST/SC/FC Universal Connector Holder (not pictured)	21.50

F1-9110

WO-1067

ULTRAVIOLET (UV) ADHESIVES & KIT

Available from FIS, this Ultraviolet Curing Kit contains a portable battery operated UV lamp, UV epoxy and protective goggles providing the ability to perform quick epoxy cures. The new higher intensity UV bulbs cure epoxy faster, excellent for use on glass tube splices and epoxy cured connectors. Safety glasses that protect against fiber splinters and UV radiation are available separately.

Kit Includes: UV lamp with bulb, safety glasses, UV adhesive and batteries.
(Recommended option for Bobtail™ Connectors.)

PART #	DESCRIPTION	PRICE
WO-1067	UV Kit	$235.00
WO-1063	Replacement Bulb	45.00
F1-S13390C	Safety Glasses	4.95
WO-1057	UV Adhesive (1 oz. bottle)	32.00

F1-4012 1.1mm Needle

Syringe

.9mm Needle

EPOXY APPLICATION SYRINGE

When assembling multiple fiber optic connectors, these Epoxy Syringes enable you work quickly and efficiently. The included dispensers (needles) enable you to easily inject epoxy into connectors. Economically priced, they can be replaced the moment the epoxy is no longer easily workable. A larger diameter 1.1mm applicator needle is also available, F1-4012, which can be used with the 501473-3IR empty syringe.

PART #	DESCRIPTION	PRICE
501473-3IRC5	Empty Syringe w/ .9mm Needle (5 pk.)	$1.25
501473-3IRC25	Empty Syringe w/ .9mm Needle (25 pk.)	6.25
501473-3IRC100	Empty Syringe w/ .9mm Needle (100 pk.)	25.00
F1-4012	1.1mm Applicator Needle for 3M Connectors (25 pk.)	25.50

1.800.5000.FIS(347)

FIS EPOXY FOR CONNECTORIZATION

Each pre-measured two-part packet contains the proper ratio for connectorization. Every packet includes specific directions for use with fiber optic connectors.

PART #	STYLE	2 GRAM PRICE	4 GRAM PRICE
H05-100-RX	Quick Cure - Single Pack	$2.45	$3.95
T60-065-BX	Blue Dye - Single Pack	2.25	3.95
T120-023-CX	Room Cure - Single Pack	2.45	3.95
H15-080-RX	Heat Cure - Single Pack	2.50	3.95
H05-100-RX-50	Quick Cure - 50 Pack	110.25	177.75
T60-065-BX-50	Blue Dye - 50 Pack	101.25	177.75
T120-023-CX-50	Room Cure - 50 Pack	110.25	177.75
H15-080-RX-50	Heat Cure - 50 Pack	112.50	177.75

Replace "X" with "2" for 2 Gram Package or "4" for 4 Gram Package.

501202-1

TRA-CON EPOXY

PART #	DESCRIPTION	PRICE
BAF253	Quick Cure	$7.15
BAF113SC	Blue Dye	6.00
BAF120	Room Cure	9.15
BAF112	Blue Dye	6.00
501202-1	Epoxy Mixer (Roller)	6.00

EPO-TEK EPOXY

The two-part EPO-TEK Epoxy is a favorite of many fiber optic users. The epoxy remains liquid until heat is applied. The application of heat provides a quick cure, turning the epoxy to a reddish-brown color. The EPO-TEK Epoxy will not react like other epoxies to coating applied to the larger core/clad diameter of specialty fibers.

PART #	DESCRIPTION	PRICE
353ND	EPO-TEK Epoxy (8 oz. Kit)	$55.00

CYANOCRYLATE ADHESIVE

This quick set cyanocrylate adhesive is provided for terminating FIS Bobtail Connectors. An Accelerant provides even faster cure time, less than 60 seconds.

PART #	DESCRIPTION	PRICE
F1-BTXY	Adhesive (For Bobtail Connector)	$30.50

HYSOL EPOXY

Contained in two separate tubes or packets, the Hysol Epoxy can be heat or time cured. Hysol Epoxy is excellent for general connector use. A quick dry, 4 gram, mini packet is available for individual connector repair.

PART #	DESCRIPTION	PRICE
F1-707010	Hysol Epoxy (3.4 oz.) (10 sets in each case)	$82.95
F1-608	Mini Packet (4gm) Fast Cure Epoxy	1.45

ANAEROBIC ADHESIVE

This two-part system self cures in minutes with no heat required. The retaining compound is injected into the connector with a syringe needle. Dip or spray the fiber with primer and connectorize as usual. Sets up in seconds, fully cured in minutes. Domestic ground shipment only! For use when recommended by connector MFG.

PART #	DESCRIPTION	PRICE
680	Anaerobic Adhesive Hardener	$12.25
7649	Primer	10.25
F1-ANAEROBICKIT	Kit (Anaerobic Adhesive, Primer & Syringe Tips)	51.00

Consumables

DID YOU KNOW

EPOXY REFERENCE CHART
Use This Chart To Select The Right Epoxy For Your Application!

PART#	MFG	EPOXY STYLE	APPLICATION	CURE TYPE	CURE TEMP(S)	CURE TIME	POT LIFE
H05-100-RX	FIS	Quick Cure	Singlemode	Heat Only	100° C	5 min	4hr / 45min (syringe)
T60-065-BX	FIS	Blue Dye	SM, MM	Time/Heat	Room to 80°C	24hr to 30min	2hr / 45min (syringe)
T120-023-CX	FIS	Room Cure	Fiber Potting	Time	Room Temp	up to 2hrs	5 min
H15-080-RX	FIS	Heat Cure	Singlemode	Heat Only	80° C	15min	4hr / 45min (syringe)
F1-BTXY	Loctite	Cyanoacrylate	FIS Bobtail	Quick Cure	Room Temp	< 2min	N/A
BAF253	Tra-Con	Quick Cure	Singlemode	Heat Only	100° C	5 min	2hr / 45min (syringe)
BAF113SC	Tra-Con	Blue Dye	SM, MM	Time/Heat	Room to 80°C	24hr to 30min	2hr / 45min (syringe)
BAF120	Tra-Con	Room Cure	Fiber Potting	Time	Room Temp	up to 2hrs	5 min
BAF112	Tra-Con	Blue Dye	Multimode	Time/Heat	65°C	15 min	40 min
F1-707010	Dexter	Hysol	Large core MM	Time/Heat	Room to 100°C	24hr to 30min	30 min
F1-608	Dexter	Hysol	Custom Applications	Time	Room Temp	5 - 10min	3 min
353ND	Epoxy Tech	Heat Cure	Singlemode	Heat Only	100 - 150°C	1 - 5mins	4hr / 45min (syringe)

ITW Chemtronics®

FIS IS AN ITW CHEMTRONICS MASTER DISTRIBUTOR!

CFK1000   **CFK1010**   **FSK1000**

ITW Chemtronics Combination Cleaning Process
Specialized Cleaning for Every Application

GROUND SHIPPING REQUIRED

FIBER OPTIC CLEANING KITS

Correctly cleaning a fiber optic connection is the first step to assure a low loss fiber optic signal anywhere along the network to your customer's location. The ITW Chemtronics Combination Cleaning Process overcomes the problems encountered in both the Wet Cleaning process and the Dry Cleaning technique. The "wet-to-dry" Combination Cleaning Process® is a patented innovation that cleans and automatically dries all soil types from end faces most-typically the first time. This Combination Cleaning Procedure or CCp™ utilizes a proprietary solvent that effectively removes all commonly encountered soils. The combination of effective products and application techniques make the CCp™ ideal for both Outside Plant and OEM cleaning applications.

PART #	DESCRIPTION	KIT CONTENTS	PRICE
CFK1003	Air Transportable Fiber Optic Cleaning Kit		$140.00
CFK1000	FTTH Fiber Optic Cleaning Kit	1-QbE Cleaning Platform, 1-Electro-Wash Precision Fiber Optic Cleaner (ES810), 1- 2.5mm Foam Fiber Optic Swabs (48042F), 1-V-Groove & Ferrule Cleaning Swabs(38542F), 1-Fusion Splice Mirror Cleaning Swabs (51125F), 1 - Lint Free Wipes (6704F), 5 - Electro-Wash MX Universal Cleaner wipes (CP421), instructions and 1- Rugged Bag with carabiner attachment	144.00
CFK1010	Installation/Maintenance Fiber Optic Cleaning Kit	1-QbE Cleaning Platform, 1-Electro-Wash Precision Fiber Optic Cleaner (ES810),and 1- 2.5mm Foam Fiber Optic Swabs (48042F), 1 - Lint Free Wipes (6704F), 5 - Electro-Wash MX Universal Cleaner wipes (CP421), instructions and 1- Rugged Bag with carabiner attachment	115.00
FSK1000	Fusion Splice Prep/Cleaning Kit	FsP :new patent pending 'vertical' aerosol, FsW: 100-'aperatured' wipers, 100: 38542F V-Groove Cleaning Swabs, 50: 51125F Precision Mirror Cleaning Swabs, 10: CP 421 for one-step gel removal and tool cleaning, 100 - 670F, pictorial instructions, and carrying bag	90.00
CCK2	Compact Fiber Optic Cleaning Kit includes F1-MXCP Cleaning Pen and SqR Compact Endface Cleaning Tool		35.50

S1P100P   **F1-1003**   **F1-MXCP**   **PQBE**   **F1-48042F**

GROUND SHIPPING REQUIRED

HM HAZMAT FEES MAY APPLY

PART #	DESCRIPTION	PRICE
F1-48042F	2.5mm Fiber Optic Cleaning Swabs (50/tube)	$11.75
F1-38542F	V-Groove/Ferrule Cleaning Swabs (50/tube)	13.25
F1-51125F	Fusion Splicer Lens Cleaning Swabs (15/tube)	12.75
F1-1003	Optic Prep Tissue Pack Box (50pk)	23.95
QbE	QbE© Lint Free Cleaning Wipes	45.00
PQBE	Pocket QBE Lint Free Cleaning Wipes	45.00
F1-MXCP	Electrowash MX Cleaning Pen	9.30
F1-ES810	Electro-Wash 5 oz. Aerosol Can (PX) (Ground shipping required)	10.95
F1-ES110	Electro-Wash 1 Gallon Bottle (PX) (Ground shipping required)	67.95
F1-ES1210	Electro-Wash 12.5 oz. Aerosol Can (PX) (Ground shipping required)	20.25
F1-ES1607	Electro-Wash 12 oz. Aerosol Can (NXO) (Ground shipping required)	43.75
F1-ES107	Electro-Wash 1 Gallon Bottle (NXO) (Ground shipping required)	590.00
F1-CP421	Electro-Wash Wipes (MX) (25 individual wipes per box)	47.75
S1P100P	Pre-Saturated Wipes (Ground shipping required)	23.95

CAP — CABLE ASSEMBLY PARTNERSHIP PROGRAM

FIS has joined with Manufacturers to offer preferred pricing and services under our Cable Assembly Partnership (CAP) Program. Cable Assembly Companies that qualify as CAP members will receive:

- Incredible pricing on cable, polish film, epoxy and connectors
- No quantity buys required
- Based on regular use of FIS and 3M products
- Limited memberships available
- Expanding Product Lines

Attention Cable Assembly Houses!
FIS Proudly Introduces our NEW Cable Assembly Partnership Program (CAP)

Steps		3M™ 5" Disc Value	Mineral	Micron Size / Color
#1	De-Nub and Epoxy Removal	461X	Silicon Carbide	15µm / Gray
#2	Refine (Level Connector)	661X	Diamond	1µm / Lav 3µm / PNK 6µm / BRW
#2	Refine (Level Connector)	662XW	Diamond	1µm / Lav 3µm / PNK 6µm / BRW
#3	Polish (Finish)	863XW	Silicon Dioxide	Final Polish/Translucent
#3	Polish (Finish)	865X	Silica	Final Polish / White

Let Us Quote A 3 Step Solution!

With 20 years of cable assembly experience, FIS can show you how to achieve maximum value using specific 3M™ Lapping Films. The following are our current recommendations. The films highlighted above provide exceptional value in terms of pricing and performance.

Revolutionary New Diamond One-Step Polish Film

- Achieve Higher Yields
- Lower Your Material Costs
- Save on Labor Cost
- Eliminate Multiple Diamond Films
- Improve Efficiency and Productivity!

A revolutionary process has resulted in a truly remarkable polish film. This new film offers super performance and is ideal for any production Polish Machines. Try this film to see how it improves efficiency and profitability of your operation. You will be impressed! Call your FIS Sales Representative for details today.

PART #	DESCRIPTION	PRICE
F1-ONE04	One Step 4" Diamond Disc	$4.75
F1-ONE05	One Step 5" Diamond Disc	5.00
F1-ONE6X6	One Step 6" X 6" Diamond Sheet	6.25

FIS POLISH FILM SOLD IN PACKS OF 25 SHEETS

When choosing polish film, you want to achieve two things; a high-quality end face finish, and maximum value for your money. FIS Polish Films provide both! Carefully graded abrasives are bonded with quality adhesives, enabling you to polish more connectors per sheet. As low as 36 cents per sheet!

LARGE SHEETS 9" X 13"

PART #	MATERIAL	GRIT	COLOR	PRICE
F1-0109-03	Alum. Oxide	.3µm	White	$17.50
F1-0109-1	Alum. Oxide	1µm	Lt. Green	17.50
F1-0109-2	Alum. Oxide	2µm	Aqua	17.50
F1-0109-3	Alum. Oxide	3µm	Pink	17.50
F1-0109-5	Silicon Carbide	5µm	Black	17.50
F1-0109-9	Alum. Oxide	9µm	Lt. Blue	17.50
F1-0109-12	Alum. Oxide	12µm	Dark Yellow	17.50
F1-0109-15	Silicon Carbide	15µm	Dark Grey	17.50
F1-0109-5-1-03	3 in 1 Film	(5, 1, .3µm)		17.50

STANDARD SHEETS 9" X 6.5"

PART #	MATERIAL	GRIT	COLOR	PRICE
F1-0102-03	Alum. Oxide	.3µm	White	$9.00
F1-0102-1	Alum. Oxide	1µm	Lt. Green	9.00
F1-0102-2	Alum. Oxide	2µm	Aqua	9.00
F1-0102-3	Alum. Oxide	3µm	Pink	9.00
F1-0102-5	Silicon Carbide	5µm	Black	9.00
F1-0102-9	Alum. Oxide	9µm	Lt. Blue	9.00
F1-0102-12	Alum. Oxide	12µm	Dark Yellow	9.00
F1-0102-15	Silicon Carbide	15µm	Dark Grey	9.00

FIS DIAMOND POLISH FILM SHEETS

PART #	DESCRIPTION	GRIT	COLOR	QTY	PRICE
F1-0107-1S	3" x 6" Sheet	1µm	Violet	1	$4.00
F1-0107-3S	3" x 6" Sheet	3µm	Pink	1	4.00
F1-0107-30S	3" x 6" Sheet	30µm	Green	1	5.00

FIS MACHINE POLISHING DISCS

PART #	SIZE	TYPE	GRIT	COLOR	QTY.	PRICE	PART #	SIZE	TYPE	GRIT	COLOR	QTY.	PRICE
F1-010705D	4"dia.	Aluminum Oxide	.05µm	Yellow	25	$5.00	F1-010805D	5"dia.	Aluminum Oxide	.05µm	Yellow	25	$8.95
F1-01071DD	4"dia.	Diamond	1µm	Violet	1	3.35	F1-01081DD	5"dia.	Diamond	1µm	Violet	1	5.00
F1-01073DD	4"dia.	Diamond	3µm	Pink	1	3.35	F1-01083DD	5"dia.	Diamond	3µm	Pink	1	5.00
F1-01076DD	4"dia.	Diamond	6µm	Grey	1	3.35	F1-01086DD	5"dia.	Diamond	6µm	Brown	1	5.00
F1-010730DD	4"dia.	Diamond	30µm	Green	1	3.50	F1-010830DD	5"dia.	Diamond	30µm	Green	1	5.00

POLISH FILM — FIBER OPTIC CONNECTOR GRADE
1-800-5000-FIS
www.fiberinstrumentsales.com
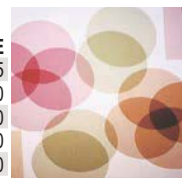
FIBER POLISHING FILM

3M™ DIAMOND LAPPING FILMS
• Premium diamond abrasive film to cut and polish hard ceramic ferrules and glass cores at the same level at a consistent rate

3M™ POLISHING FILM - MT
• Eliminates slurries and messy cleanup
• High first-pass yield minimizes rework
• Precisely graded particles are coated on a high-strength backing

3M™ LAPPING FILMS
• Micron graded materials on uniform polyester backing
• Provides consistent, repeatable finishes in sequence
• Use on ceramic, stainless steel, plastic and composite ferrules
• Innovative, cost-effective method to finish fiber optic connectors

3M™ FINAL POLISH DISCS
For final polishing fiber optic connectors, this film meets industry standards for back reflection.
• Eliminates slurries and messy cleanup
• High first-pass yield minimizes rework
• Meets Telcordia Standards GR-326

For Quality Assurance 3M™ Polish Film Is Sold Only In Factory Packs of 25 or 50
Call for other grades, sizes and pressure sensitive adhesive (PSA) backed products.

4"

3M™ LAPPING FILM 4" DISCS

PART #	MATERIAL	GRIT	PACK SIZE	DISC PRICE
DLF4XN.5661X	Diamond	.5µm	50	$4.25
DLF4XN01661X	Diamond	1µm	50	3.95
DLF4XN03661X	Diamond	3µm	50	4.25
DLF4XN06661X	Diamond	6µm	50	4.25
DLF4XN15661X	Diamond	15µm	50	4.25
AO4XN.05263X	Alum. Oxide	.05µm	50	25¢
AO4XN.3263X	Alum. Oxide	.3µm	50	25¢
AO4XN03263X	Alum. Oxide	3µm	50	25¢
SC4XN15461X	Silicon Carbide	15µm	50	35¢
HDF4XN0.5662XW	Diamond H	.5µm	50	4.75
HDF4XN01662XW	Diamond H	1µm	50	4.75
HDF4XN1.5662XW	Diamond H	1.5µm	50	4.75
HDF4XN03662XW	Diamond H	3µm	50	4.75
HDF4XN06662XW	Diamond H	6µm	50	4.75
863X4NH	4" Final Polish		50	1.35
865X4NH	4" Final Polish		50	2.25

5"

3M™ LAPPING FILM 5" DISCS

PART #	MATERIAL	GRIT	PACK SIZE	DISC PRICE
DLF5XN.5661X	Diamond	.5µm	25	$4.50
DLF5XN01661X	Diamond	1µm	25	3.95
DLF5XN03661X	Diamond	3µm	25	4.50
DLF5XN06661X	Diamond	6µm	25	4.50
DLF5XN15661X	Diamond	15µm	25	4.50
AO5XN.05263X	Alum. Oxide	.05µm	50	35¢
AO5XN.3263X	Alum. Oxide	.3µm	50	35¢
AO5XN03263X	Alum. Oxide.	3µm	50	35¢
SC5XN15461X	Silicon Carbide	15µm	50	35¢
HDF5XN0.5662XW	Diamond H	.5µm	25	5.00
HDF5XN01662XW	Diamond H	1µm	25	5.00
HDF5XN1.5662XW	Diamond H	1.5µm	25	5.00
HDF5XN03662XW	Diamond H	3µm	25	5.00
HDF5XN06662XW	Diamond H	6µm	25	5.00
863X5NH	5" Final Polish		50	1.70
865X5NH	5" Final Polish		50	2.95

3M™ POLISHING FILM - MT 5" DISCS

PART #	MATERIAL	GRIT	PACK SIZE	DISC PRICE
FCO-0.55XN598PSA	Cerium Oxide Flock Film PSA	0.5µm	50	$2.90
FAO-0.55XN298PSA	Alum. Oxide Flock Film PSA	0.5µm	50	2.90
FAO-015XN298PSA	Alum. Oxide Flock Film PSA	1µm	50	2.90
FSC-035XN498PSA	Silicon Carbide Flock Film PSA	3µm	50	2.90
SC155XN468PSA	Silicon Carbide Lapping Film PSA	15µm	50	55¢
SC035XN468PSA	Silicon Carbide Lapping Film PSA	3µm	50	55¢
SC305XN468PSA	Silicon Carbide Lapping Film PSA	30µm	50	55¢

6" x 6"

3M™ LAPPING FILM 6" x 6" SHEETS

PART #	MATERIAL	GRIT	PACK SIZE	SHEET PRICE
DLF6X6.5661X	Diamond	.5µm	25	$5.95
DLF6X601661X	Diamond	1µm	25	5.95
DLF6X603661X	Diamond	3µm	25	5.95
DLF6X606661X	Diamond	6µm	25	5.95
AO6X6.05263X	Alum. Oxide	.05µm	50	50¢
AO6X603263X	Alum. Oxide	3µm	50	50¢
AO6X605261X	Alum. Oxide	5µm	50	50¢
AO6X612264M	Alum. Oxide	12µm	50	50¢
863X6X6NH	Final Polish		50	$2.50

9" x 13"

3M™ LAPPING FILM 9" X 13" SHEETS

PART #	MATERIAL	GRIT	PACK SIZE	SHEET PRICE
AO9X130.3261X	Alum. Oxide	.3µm	50	70¢
AO9X1301262X	Alum. Oxide	1µm	50	70¢
AO9X1302262X	Alum. Oxide	2µm	50	70¢
AO9X1303261X	Alum. Oxide	3µm	50	70¢
AO9X1312262X	Alum. Oxide	12µm	50	70¢
AO9X1309261X	Alum. Oxide	9µm	50	70¢
SC9X1305461X	Sil. Carbide	5µm	25	70¢
SC9X1315461X	Sil. Carbide	15µm	50	70¢
SC9X1330461X	Sil. Carbide	30µm	50	70¢

9" x 6.5"

3M™ LAPPING FILM 9" X 6.5" SHEETS

PART #	MATERIAL	GRIT	PACK SIZE	SHEET PRICE
AO9X60.3261X	Alum. Oxide	.3µm	50	50¢
AO9X601262X	Alum. Oxide	1µm	50	50¢
AO9X602262X	Alum. Oxide	2µm	50	50¢
AO9X603261X	Alum. Oxide	3µm	50	50¢
AO9X609261X	Alum. Oxide	9µm	50	50¢
SC9X605461X	Sil. Carbide	5µm	50	50¢
SC9X615461X	Sil. Carbide	15µm	50	50¢
SC9X630461X	Sil. Carbide	30µm	50	50¢

3" x 6"

3M™ DIAMOND LAPPING FILM 3" X 6" SHEETS

PART #	GRIT	PACK SIZE	SHEET PRICE
DLF3X601661X	1µm	25	$4.50
DLF3X603661X	3µm	25	4.50
DLF3X606661X	6µm	25	4.50
DLF3X630661X	30µm	25	6.00

Consumables

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HAND POLISHING DISCS

The metal fiber optic polishing discs are especially durable and are machined to close tolerances. They are designed to hold your fiber optic endface at exactly the correct angle to the polishing film during the polishing process. The plastic fiber optic polishing disks are also very useful. The ST Plastic Polish Disc is so affordable that you can purchase several of them to keep handy in your toolbox, truck or in the shop.

PART #	DESCRIPTION	MFG	PRICE
F1-6925UN	ST/SC/FC Universal 2.5mm Polish Disc	FIS	$45.00
F1-6925ST	ST Polish Disc (G)	FIS	39.95
F1-6977ST	ST 4 Position Polish Disc (I)	FIS	125.00
F1-6928SC	SC Polish Disc (C)	FIS	39.95
F1-6928APC	SC/APC Polish Disc	FIS	75.00
F1-6925FC	FC/PC Polish Disc (D)	FIS	39.95
F1-6925FCAPC	FC/APC Polish Disc (H)	FIS	75.00
F1-6930UN	MU/LC Polish Disc (F)	FIS	45.00
900-118-1305	LC Plastic Polish Disc (A) (Plastic)	Stratos	65.00
F1-6900APC	LC/APC Polish Disc	FIS	75.00
F1-6925SMA	SMA Polish Disc	FIS	39.95
F1-6926	D4 Polish Disc	FIS	39.95
F1-6927	Biconic Polish Disc (may not work w/all brands)	FIS	85.00
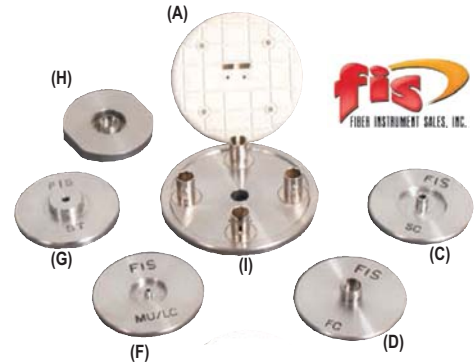
ULTRA PRECISION POLISHING PADS

Ultra Pads are color coded for easy recognition by the machine operators. 4" & 5" discs are .079" thick and 6"x 6" squares are 0.250" thick.

PART #	DESCRIPTION	PRICE
F1-70D4	4" Circular Rubber Pad 70 Durometer (purple)	$17.00
F1-90D4	4" Circular Rubber Pad 90 Durometer (black)	17.00
F1-70D5	5" Circular Rubber Pad 70 Durometer (purple)	17.00
F1-90D5	5" Circular Rubber Pad 90 Durometer (black)	17.00
F1-70DX6	6" x 6" Square Rubber Pad 70 Durometer (purple)	16.50
F1-90DX6	6" x 6" Square Rubber Pad 90 Durometer (black)	16.50

POLISH PLATES, PADS & MATS

The polishing of fiber optic connectors calls for both a hard flat surface and a cushioned pad. The 9" x 13" or 6" x 9" polish plate is available in safety glass and mounted on four rubber feet for support. When polishing PC style pre-radius connectors, use the soft polish pad on the glass plate. Placing the lapping film over the pad assures the removal of epoxy and proper polish of fiber without destroying the pre-radius of the ferrule.

PART #	DESCRIPTION	PRICE
F1-9111	FIS Polish Glass Plate (9" x 13") (A)	$16.95
F1-9111A	FIS Polish Glass Plate (6" x 9") (B)	12.95
PP-575	5.75" Square Polishing Pad 1/16" Thick 70 Durometer (C)	5.95
F1-0024	Large Black Work Mat (22" x 14") (D)	5.50
PPG-575	5.75" Square Polishing Pad w/1/4" Acrylic Plate (not pictured)	15.00
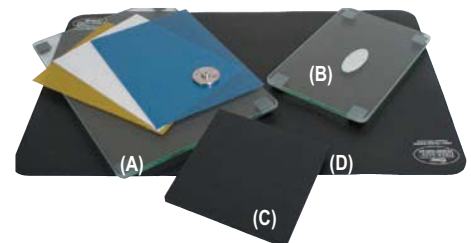
PROTON™ FIELD POLISHER

Proton™ is designed for field polishing environments in which cable and connector access is limited. Rather than bringing a cable to the polisher, Proton™ can be located in close proximity of the connector to be processed. Proton™ features true, hand-held operation in a rugged and battery operated package. Applications include FTTx, CATV and avionic/harsh environments.

PART #	DESCRIPTION	PRICE
PRTX	Base Unit with AC Adapter and 9V Battery (No plates included)	$2,500.00
PRT-W10	2.5mm UPC Polishing Fixture (SC/FC/ST/Ferrule) w/ Starter Film Kit	1,725.00
PRT-W80	1.25MM UPC Polishing Fixture (LC/MU/Ferrule) w/ Starter Film Kit	1,900.00
PRT-W30	FC/APC Polishing Fixture (8 Degree) w/ Starter Film Kit	1,900.00
PRT-W40	SC/APC Polishing Fixture (8 Degree) w/ Starter Film Kit	1,900.00
PRT-W95	SMA Polishing Fixture w/ Starter Film Kit	1,900.00
PRT-W62	M29504 Mil-Spec Termini Polishing Fixture w/ Starter Film Kit	2,150.00
PRT-C-1	Ruggedized and Waterproof Storage/Transit Case	395.00

FIS POLISHER

The new FIS fiber optic polishing machine offers high performance for an industry leading value. With its small footprint it is optimal for production or field use. The FIS-550P has been constructed of hardened stainless steel and hard coated aluminum for ultimate precision and durability. Single speed platen and digital timer allow for simple and highly repeatable use. All polish machines & fixtures are made in the U.S.A.

FEATURES
- Dimensions - 11.5" H x 6" W x 8" L
- Exceeds industry standards for end-face geometry
- High precision, lower cost polish plates allow for lower tool-up cost
- For high yield rate, FIS recommends the use of a 2-step process featuring 'One-step' film located on pg 105.

Polish Fixtures Starting at only $1,995.00

Includes: FIS-550P Polish Machine, 110 power cord, instruction manual and hard carry case.

PART #	DESCRIPTION	PRICE
FIS-500P	Field Polishing Machine uses 4" Polishing Film	$8,000.00
FIS-FC-12	FC 12-Port Polishing Fixture	1,995.00
FIS-SC-12SS	SC 12-Port Polishing Fixture	1,995.00
FIS-ST-18	ST 18-Port Polish Fixture	1,995.00
FIS-LC-12	LC Duplex 12-Port Polish Fixture	1,995.00
FIS-FC8-12	FC/APC 12-Port Polishing Fixture	3,425.00
FIS-SC8-12SS	SC/APC 12-Port Polishing Fixture	3,000.00
FIS-LC8-12	LC/APC 12-Port Polish Fixture	4,475.00
FIS-MTRJ-10	MTRJ 10-Port Polish Fixture	4,150.00
FIS-500-POFL-12ADPD	OFL12A Polish Jig Adapter for FIS 500P Polisher	95.00

FIS-500P

FIS-ST-18

SEIKOH GIKEN POLISH MACHINES
SFP-550S

This top of the line polishing machine offers excellent production throughput of up to 40 ferrules simultaneously. The SFP-550S offers the widest versatility of connectors and ferrules including MT/MPO ferrules, Fiber array and PLC processing. It features a full function LCD touch panel for simplified programming of various polishing processes. Best for use in high volume mass-production environments where critical geometry performance is essential.

SFP-550

PART #	DESCRIPTION	PRICE
SFP-550S	SFP-550S Polisher with standard accessory package	$18,750.00
PH55-FP-20	FC/PC Polish Fixture(20 position)	4,025.00
PH55-FP8RC-18-1	FC/APC Polish Fixture (18 position)	4,800.00
PH55-CP-20	SC/PC Polish Fixture (20 position)	4,025.00
PH55-CP8C-18	SC/APC Polish Fixture (18 position)	4,800.00
PH55-SP-20	ST/PC Polish Fixture(20 position)	4,025.00
PH55-PL-24	LC Polish Fixture (24 position)	4,200.00

ACCESSORIES
PART #	DESCRIPTION	QTY.	PRICE
GA5D	30µm Silicon Carbide Adhesive Removal Film	500	$264.00
DR5D-9U	9µm Diamond Rough Polish Film	20	88.00
DG5D-5U	5µm Diamond Rough Polish Film	20	88.00
DH5D-3U	3µm Diamond Middle Polish Film	20	88.00
DI5D-1.5U	1.5µm Diamond Middle Polish Film	20	88.00
SF5D	1µm Alum. Oxide Final Polish Film	500	386.00
XF5D	Final Polish Film	100	210.00

FEATURES
- Patented Rotation & Revolution Polishing Method
- Ergonomic Tilted Front Panel
- Full Color LCD Touch Screen

SEIKOH GIKEN

STANDARD PACKAGE
DESCRIPTION	PART #	QTY
Operation Manual	FP-IM55S	1
Process Manual	FP-PM55S	1
Maintenance Man.	FP-MM55S	1
5.0mm convex pad	PR5X-500-80	3
5.0mm convex pad	PR5X-500-90	1
5.08mm convex pad	PR5X-508-40	4
4.8mm convex pad	PR5X-480-80	1
4.9mm convex pad	PG5X-490-00	2
0.05mm spacer film	15303-05	2
Epoxy removal film	GA5D	50
Rough polish film	DR5D-9um	2
Middle polish film	DM5D-3um	2
Final Polish Film	SF5D	50
Final Polish Film	XF5D	10
Cleaning Film	CF5D	1
Polishing Liquid	PL50	1
Compression Spring	FP-CS55	4
Allen Wrench Set	FP-TS	1
Double-sided Tape	FP-DST	1
Cable Hanger	FP-CH	1
2A Fuse	FP-F2A	2

SFP-12A (550)

This high performance polish machine offers superior quality and maximum throughput at a very affordable price. Utilizing a patented, high speed rotation & revolution method, this polisher prepares connectors which exceed Telcordia GR-326 requirements for end face geometry. Standard capacity 18 connectors, up to 48 LC/MU.

SFP-12A (550)

PART #	DESCRIPTION	PRICE
SFP-550	SFP-550 Polisher with standard accessory package	$9,500.00
PH55-FP-20	FC/PC Polish Fixture(20 position)	4,025.00
PH55-FP8RC-18-1	FC/APC Polish Fixture (18 position)	4,800.00
PH55-CP-20	SC/PC Polish Fixture (20 position)	4,025.00
PH55-CP8C-18	SC/APC Polish Fixture (18 position)	4,800.00
PH55-SP-20	ST/PC Polish Fixture(20 position)	4,025.00
PH55-PL-24	LC Polish Fixture (24 position)	4,200.00

ACCESSORIES
PART #	DESCRIPTION	QTY.	PRICE
GA5D	30µm Silicon Carbide Adhesive Removal Film	500	$264.00
DR5D-9U	9µm Diamond Rough Polish Film	20	88.00
DG5D-5U	5µm Diamond Rough Polish Film	20	88.00
DH5D-3U	3µm Diamond Middle Polish Film	20	88.00
DI5D-1.5U	1.5µm Diamond Middle Polish Film	20	88.00
SF5D	1µm Alum. Oxide Final Polish Film	500	390.00
HF5D	0.5µm Silica Final Polish Film	100	210.00

FEATURES
- Exceeds requirements for GR-326 End Face Geometry
- Uses the patented rotation & revolution method
- I.P.C. holder technology yields the best results in the industry

STANDARD PACKAGE
DESCRIPTION	PART #	QTY
Main Body	SFP-550	1
Cable Holder	FP-CH	1
Operating Manual	FP-IM12	1
Process Manual	FP-MM12	1
Maintenance Man.	FP-PM12	1
5.0mm Sponge Pad	PR5X-500-80	3
5.0mm Rubber Pad	PR5X-500-80	3
5.0mm Rubber Pad	PG5X-500-85	3
Adhesive Removal	GA5D	50
Rough Polish Film	DR5D-9u	2
Middle Polish Film	DJ5D-1u	2
Final Polish Film	XF5D	10
Coil Spring	FP-CS55	4
2A Fuse	FP-F2A	2
Hexagon Wrench	FP-TS	1
Power Cable	FP-AC***	1
3µm Diamond Film	DH5D-3U	2

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Consumables

TOOLS
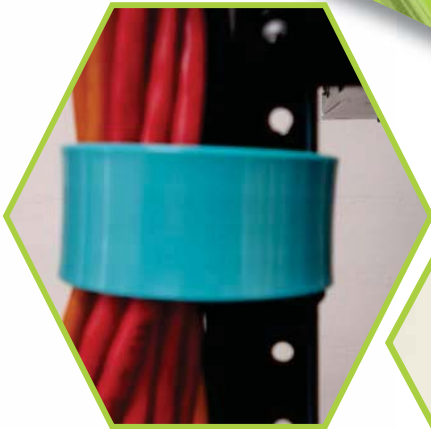
See Page 127

NEW CABLE TIE WRAPS

It's easy for installers to over-cinch thin zip ties, resulting in macrobends that attenuate fiber optic cables. With copper cables, the weight of cables pressing against thin ties can damage or deform them enough to create crosstalk issues. To solve these problems, FIS has created the "Universal Cable Strap," the widest cable tie designed for communications cable. A padded version is available for fiber optic cable.

Mounting Hole for wall applications

Large teeth allow for secure hold

Latching mechanism allows for reuse

Padded surfaces prevent over tightening & minimizes attenuation
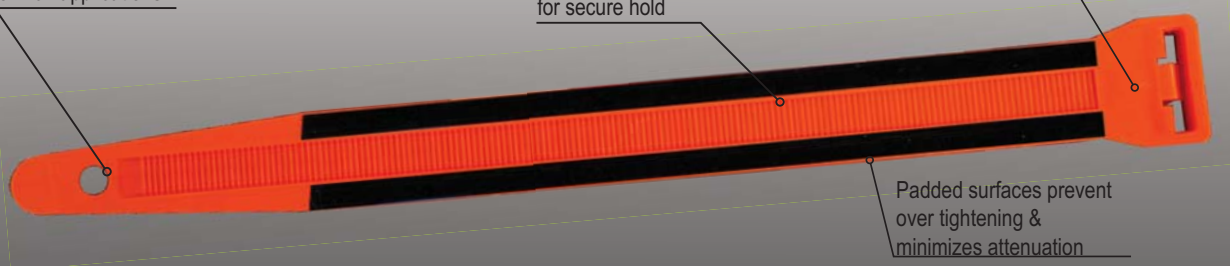
DURABLE, CONVENIENT, AND FULLY CUSTOMIZABLE

HPX® High Performance Resin

Removable organizer palette with storage behind

Molded-In Lockable Hasps

Airtight, Waterproof, and Dust Free

Foam inserts cushion contents

Strong Flat Edge Hinges

Press & Pull® latches keep contents secure

Pressure Release Valve

Tools

FIS is the leader in the fiber optic industry for offering the best value on tool kits. Every year FIS expands upon its tool kit line and upgrades several tools to show our commitment to providing quality kits. The Universal Connectorization Epoxy Tool Kit provides a technician with materials to prep and connectorize standard fiber optic connectors such as ST, SC and FC. For technicians searching for the ultimate tool kit, review our Universal Multimode Test Set Kit and Fusion Splicing Kits.

Now Available with Greenlee Tools!

G

Look For Green Part Numbers

FIS BASIC FIBER OPTIC TOOL KIT

- PVC Electrical Tape (F1-0008)
- 2 oz. Cleaning Solvent (F1-6706)
- Trihole Fiber Stripper (F1-1301T)
- FIS Connector Cleaner (F1-7020C)
- Kevlar Scissors (F1-KS1)
- Jacket Stripper (F1-0016)
- Buffer Tube Stripper (F1-0017)
- Round Cable Slitter (MK02)
- 6" Side Cutting Pliers (THT-2140C)
- (50) Foam Swabs (F1-0005)
- Cleaning Tissue (F1-6705)
- Utility Knife (F1-0023BLK)
- Tweezers (F1-0019)
- Needle Nose Pliers (THT-1840C)
- Piano Wire (F1-8265K)
- Fiber Optic Wipes (F1-6705)

- 4 Bit Screwdriver (F1-0027)
- Black Marker (F1-9104)
- Safety Glasses (F1-513390)
- (5) Degreaser Wipes (F1-1010)
- (5) Fusion Splice Sleeves 60mm (F1-1002C)
- Black Work Mat (F1-0024)
- Fiber Disposal Unit (F1-8328C)
- Ruler (RMC-6)
- Fabric Tape Measure (F1-8273)
- 1/2" Nut Driver (1UG30)
- (3) Economy Tie Labels (P50LABELKIT)
- Rugged Carry Case (F10053HARD)
- Shrink Tube Kit (P50TUBEKIT)
- 1Mtr 3mm Furcation (F00FR3RO)
- 1Mtr 900µm Furcation (F00FR900HW)

Non-Hazardous Ships Air!

PART #	DESCRIPTION	PRICE
F1-0053	Basic Tool Kit (Pictured)	$375.00
F1-0053C	Replacement Consumables	39.95
F1-0053P	Basic Tool Kit with PVFL (F1-9000)	475.00
F1-0053SB	Basic Tool Kit with Soft Case	375.00
F1-0053-G	Basic Tool Kit with Greenlee Tools (8 Tools See Below)	445.95
F1-0053P-G	Basic Tool Kit with PVFL (F1-9000) and Greenlee Tools (See Below)	545.95

**Basic Fiber Optic Kit
F1-0053**

Supplied Greenlee Tools:
- Jacket Stripper 26-16AWG (1917) - Replaces (F1-0016)
- 6" Side Cut Pliers (0251-06M) - Replaces (THT-2140C)
- 6" Needle Node Pliers (0351-06D) - Replaces (THT-18404C)
- Utility Knife (0652-11) - Replaces (F1-0023BLK)

- 6 in 1 Screwdriver (0153-42C) - Replaces (F1-0027)
- 24' /7.5 Meter Tape Measure (0155-7MA) - Replaces (F1-8273)
- ½" Nut Driver (0253-17C) - Replaces (1UG30)
- 7/16" Nut Driver (0253-16C) - Addition

CONNECTORIZATION EPOXY TOOL KIT (LC, MU)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Glass Polish Plate (F1-9111)
- Carbide Scribe (F1-9773)
- LC/MU Crimp Tool (F1-8825)
- Rubber Polish Pad (PP-575)
- (5) Syringes (5014733IRC5)
- LC Adapter for Scope (F1-MA1.25)
- FIS Universal Microscope (F1-MS200X)
- (5) FIS 4gr. Blue Dye Epoxy (T60-065-B4)
- LC/MU Universal Polish Puck (F1-6930UN)
- (5) 0.5µm Diamond Film Sheet (DLF6X6.5661X)
- (5) 1.5µm Diamond Polish Film Sheet (DLF6X61.5661X)
- Instructions for FIS Connectors LC (F217)

PART #	DESCRIPTION	PRICE
F1-0053LM	Universal 1.25mm Epoxy Connectorization Tool Kit (LC/MU)	$775.00

CONNECTORIZATION EPOXY TOOL KIT (SC, FC, ST)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Carbide Scribe (F1-9773)
- FIS Universal Crimp Tool (F1-3227)
- Rubber Polish Pad (PP-575)
- Glass Polish Plate (F1-9111)
- (5) Syringes (5014733IRC5)
- Universal Polish Puck (F1-6925UN)
- (5) 0.3µm Polish Film Sheet (F1-0102-03S)
- (5) 1µm Polish Film Sheet (F1-0102-1S)
- (5) 5µm Polish Film Sheet (F1-0102-5S)
- Instructions for FIS Connectors ST, FC & SC (F217)
- (5) FIS 4gr. Blue Dye Epoxy (T60-065-B4)
- FIS Universal Microscope (F1-MS200X)

PART #	DESCRIPTION	PRICE
F1-0053U	Universal 2.5mm Epoxy Connectorization Tool Kit (SC, FC, ST)	$625.00
F1-0053UO	Universal Epoxy Connectorization Tool Kit with 24-Port Heat Oven	825.00
F1-0053UO220	Universal Epoxy Connectorization Tool Kit with 24-Port Heat Oven	825.00
F1-0053U-G	Universal Epoxy Tool Kit with Greenlee Tools (8 Tools)	695.95
F1-0053D	Replacement Consumables	84.95

FIS MINI BASIC FIBER OPTIC TOOL KIT

- Mini Soft Case (F1-0053BSC)
- PVC Electrical Tape (F1-0008)
- Tri-Hole Fiber Stripper (F1-1301T)
- FIS Connector Cleaner (F1-7020-C)
- Kevlar Scissors (F1-KS1)
- Buffer Tube Stripper (F1-0017)
- Round Cable Slitter (MK02)
- 6" Side Cutting Pliers (THT-2140C)
- (50) Foam Swabs (F1-0005)
- Fiber Optic Wipes (F1-6702)
- Utility Knife (F1-0023BLK)
- Tweezers (F1-0019)
- Needle Nose Pliers (THT-1840C)
- (5) Fusion Splice Sleeve 60mm (F1-1002C)
- 4 Bit Screwdriver (F1-0027)
- Black Marker (F1-9104)
- Ruler (RMC-6)
- Fabric Tape Measure (F1-8273)
- 2 oz. Cleaning Solvent (F1-6706)
- Piano Wire (F1-8265)

PART #	DESCRIPTION	PRICE
F1-0053MSB	Mini Basic Fiber Optic Tool Kit	$299.00

FIS Fusion Splicing Tool Kit
F1-0053FS-C

FIS FUSION SPLICING TOOL KIT

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Cable Cutters (F1-1817)
- Flashlight (F1-605)
- Spatula (10033301)
- (12) Degreaser Wipes (F1-1010)
- 50 Pack Protection Sleeves 60mm (F1-S25C)
- Optional Lynx Cleaver (F1-LYNX)
- Optional Pocket Visual Fault Locator (F1-9000)

PART #	DESCRIPTION	PRICE
F1-0053FS	Fusion Splicing Tool Kit	$450.00
F1-0053FS-C	with Lynx Cleaver (F1-LYNX) (Pictured)	1,050.00
F1-0053FS-VFL	with PVFL (F1-9000)	550.00
F1-0053FS-C-VFL	with PVFL & Cleaver	1,150.00
F1-0053FS-G	with Greenlee Tools	550.00

Universal Connectorization Epoxy Kit
F1-0053U / F1-0053LM

Mini Basic Tool Kit
F1-0053MSB

FIS Fiber Optic Cleaning Kit
F1-0053CKM

FIS FIBER OPTIC CLEANING KIT

- Canned Air (10oz) (F1-1007S)
- Fiber Optic Wipes (F1-6702)
- 2.5mm Foam Swabs (5pk) (F1-25184)
- 1.25mm Wrapped Swabs (5pk) (F1-25123)
- Alcohol Wipes (50pk) (F1-1004)
- FIS Connector Cleaner (F1-7020-C)
- 4 oz. Bottle of Alcohol (F1-0007SP)

PART #	DESCRIPTION	PRICE
F1-0053CK	Fiber Optic Cleaning Kit	$75.00
F1-0053CKM	With 200X Microscope (Pictured)	175.00
F1-0053CKC	Replacement Consumables	39.95

F1-0053FSMINI

FIS MINI CLEANING KIT

The FIS Mini Cleaning Kit provides all of the essential cleaning supplies needed for fiber splicing. Kit includes: FIS Connector Cleaner (10), 2.5mm Mini Foam Swabs (50), Cleaning Pen, (100) 4" x 4" Woven Dry Wipes, (10) 4" x 6" Alcohol Towelettes, FIS Icky Clean, Carry Case

PART #	DESCRIPTION	PRICE
F1-0053FSMINI	FIS Mini Fiber Optic Cleaning Kit	$69.95

Tools

FIS Backpack Tool Kit
F1-0053PACK

FIS BACKPACK TOOL KIT

All the great products you become accustomed to in the FIS Tool Kit now in a smaller, lightweight, and durable backpack. (Special custom kits are available)

PART #	DESCRIPTION	PRICE
F1-0053PACK	FIS Backpack Basic Fiber Optic Tool Kit	$250.00
F1-0053PACKFS	FIS Backpack Fusion Splicing Tool Kit	325.00
F1-PACKFSC	FIS Backpack Splicing Tool Kit with Lynx Precision Cleaver	925.00
F1-PACKFSCVFL	FIS Backpack Splicing Tool Kit w/PFL & Lynx Cleaver	1,025.00
F1-PACKFSVFL	FIS Backpack Splicing Tool Kit with Pocket Fault Locator	425.00
F1-0053PACKG	FIS Backpack Basic Fiber Optic Tool Kit w/ Greenlee Tools	295.00
F1-0053PACKLM	FIS Backpack Universal 1.25mm Epoxy Tool Kit (LC/MU)	650.00
F1-0053PACKU	FIS Backpack Universal SC, FC, ST Epoxy Tool Kit	500.00
F1-0053PACKUG	FIS Backpack Universal Epoxy Tool Kit with Greenlee Tools	565.00

FIS UNIVERSAL MM TEST SET TOOL KIT

Includes all items in FIS Universal Epoxy Tool Kit (F1-0053U) plus:

- FIS Power Meter w/Adapter (F1-8513HR)
- FIS MM 850/1300nm Light Source (9052-0000)
- (2) ST-ST 62.5µm MM 1 mtr Patchcord (S288M1FISC)
- (1) ST-SC 62.5µm MM 1 mtr Patchcord (S28YM1FISC)
- (1) ST-FC 62.5µm MM 1 mtr Patchcords (S287M1FIS)
- (1) ST-ST 50µm 1 mtr. Patchcord (S188M1FISC)
- (1) ST-SC 50µm 1 mtr. Patchcord (S18YM1FISC)
- (1) ST-FC 50µm 1 mtr. Patchcord (S187M1FISC)
- ST-ST Adapter (F1-8102SS)
- SC-SC Adapter (F1-8300)
- FC-FC Adapter (F1-8501)
- Visual Fault Locator (F1-9000)

PART #	DESCRIPTION	PRICE
F1-0053TS-ST	MM Test Set Tool Kit	$1,695.00

FIS UNIVERSAL SM TEST SET TOOL KIT (Not Pictured)

Includes all items in FIS Universal Epoxy Tool Kit (F1-0053U) plus:

- FIS Power Meter w/Adapter (F1-8513HR)
- FIS SM 1310/1550nm Light Source (9055-0000)
- (1) FC-SC SM 1 mtr Patchcord (S37YS1FISC)
- (1) ST-FC SM 1 mtr Patchcord (S378S1FISC)
- (1) SC-SC SM 1 mtr Patchcord (S3YYS1FISC)
- Visual Fault Locator (F1-9000)
- FC-FC Adapter (F1-520)
- SC-SC Adapter (F13810BC)
- SC-FC Adapter (F1-34202)

PART #	DESCRIPTION	PRICE
F1-0053TS-FC	SM Test Set Tool Kit	$2,695.00
F1-0053TS-CATV	SM Test Set Tool Kit with CATV PM & SC/APC LS	2,795.00

FIS Universal MM Test Set Tool Kit
F1-0053TS-ST

FIS HOT MELT TOOL KIT

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- FIS 6 Port Hot Melt Oven (F1-9110)
- (4pk) 3M Universal Holding Clips (6365HH)
- Universal Polish Disc (F1-6925UN)
- Carbide Scribe (F1-9773)
- FIS Universal Microscope (F1-MS200X)
- (2) Soft Polish Pad (F1-90D5)
- Glass Polish Plate (F1-9111)
- FIS Universal Crimp Tool (F1-3227)
- (50pk) 3M 2µm Film (6192A)
- (5) 3M .05µm SM Polish Disc (6192AA)

PART #	DESCRIPTION	PRICE
F1-0053HM	Hot Melt Tool Kit (110v Oven)	$1,235.00
F1-0033HM	Hot Melt Tool Kit (220v Oven)	1,355.00

FIS ANAEROBIC TOOL KIT (SC & LC) (Not Pictured)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Anaerobic Adhesive Hardener (680)
- Anaerobic Primer (7649)
- (10) Syringe Tips (5014733IRC5)
- Carbide Scribe (F1-9773)
- Universal Crimp Tool (F1-3227)
- LC/MU Crimp Die (F1-8825LM)
- Rubber Polish Pad (PP-575)
- (5) 1µm Polish Film Sheet (F1-0102-1S)
- (5) 5µm Polish Film Sheet (F1-0102-5S)
- (5) 0.3µm Polish Film Sheet (F1-0102-03S)
- (5) 1.5µm Diamond Film Sheet (DLF6X61.5661X)
- (5) 0.5µm Diamond Film Sheet (DLF6X6.5661X)
- Glass Polish Plate (F1-9111)
- 2.5mm Universal Polish Puck (F1-6925UN)
- LC Universal Polish Puck (F1-6930UN)
- FIS Universal Microscope (F1-MS200X)

PART #	DESCRIPTION	PRICE
F1-0053AH	FIS Anaerobic Tool Kit	$850.00

FIS FIBRLOK™ SPLICE INSTALLATION KIT (Not Pictured)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- FIS Cleaver (F1-6000)
- (5) 3M Fibrlok Splices (2529)
- 3M Fibrlok Assembly Tool (2501)
- FIS Index Matching Gel (F1-0001K)

PART #	DESCRIPTION	PRICE
F1-0053FI	3M Fibrlok™ Splice Installation Kit	$660.00
F1-0053FISM	3M Fibrlok™ Kit with Singlemode Cleaver (F1-LYNX)	1,260.00

GROUND SHIPPING

Hot Melt Tool Kit
F1-0053HM

F1-6714MPO

NEW

DATA CENTER CLEANING STATION

The FIS Fiber Optic Cleaning Station is a unique new product that provides immediate access to cleaning supplies for technicians. These cleaning kits are wall mountable similar to First Aid kits found throughout many facilities. Open the top cover and find cleaning notes for technicians not familiar with fiber optics. Kits include cleaning instruments for both 2.5mm and 1.25mm ferrules on patchcords and through adapters in the back plane of enclosures. Optional MPO/MTP cleaning can be added to kit as well. Special edition and custom kits are available. Standard kit contents: (100) 4"x4" Clean Dry Wipes, 2 oz. Cleaning Solution, Auto-Advance Connector Cleaner, 2.5mm & 1.25mm back plane ferrule cleaning tools. Optional kits with MPO/MTP cleaning tool or choice of IBC™ Cleaners/AFL One Click Cleaners.

PART #	DESCRIPTION	PRICE
F1-6714	Fiber Optic Cleaning Station, Standard Kit	$160.00
F1-6714MPO	Fiber Optic Cleaning Station, Standard Kit with MPO/MTP cleaning tool	230.00
F1-6714IBC	Fiber Optic Cleaning Station, Special Edition Kit with IBC™ cleaning tools for 2.5/1.25mm adapters	203.00
F1-6714IBCMPO	Fiber Optic Cleaning Station, Special Edition Kit with IBC™ cleaning tools for 2.5/1.25mm adapters and MPO/MTP cleaner	275.00
F1-6714AFL	Fiber Optic Cleaning Station, Special Edition Kit with AFL cleaning tools for 2.5/1.25mm adapters	223.00
F1-6714AFLMPO	Fiber Optic Cleaning Station, Special Edition Kit with AFL cleaning tools for 2.5/1.25mm adapters and IBC MPO/MTP cleaner	295.00

CUSTOMIZE ANY TOOL KIT

You have the option to customize any of FIS' kits. You can add or swap items from the FIS kits. Please contact an FIS Sales Representative for pricing.

TEST EQUIPMENT AND OPTIONS
FIS Pocket Fault Locator
FIS Power Meters
FIS Light Sources
FIS Talk Sets
FIS Mini-OTDR
FIS Pulse Suppressors and Test Boxes

ATTENUATOR OPTIONS
FIS Male-Female attenuators in 1-20dB for FC, FC/APC, SC, SC/APC, ST, LC & MU
FIS variable attenuators

KEVLAR CUTTER OPTIONS
F1KS1 - Miller Scissors
F10020 - FIS Economy Scissors
F16430 - Clauss Kevlar Cutters
F19809 - Miller Kevlar Cutter
PA1510A, Ceramic Kevlar Cutters

PATCHCORD OPTIONS
FIS Singlemode simplex and duplex patchcords
FIS Mulitmode simplex and duplex patchcords
FIS Specialty patchcords: MTP, MT-RJ, E2000, MU, ESCON, FDDI, Polarization Maintaining & VF45 (Volition)

FIBER OPTIC STRIPPER OPTIONS
F1-1301T - FIS Precision Fiber Stripper
WO1224 - Miller Stripper
NN203 - No-Nik 203µm, Red
F11171 - Paladin Fiber Optic Stripper

MICROSCOPE OPTIONS
F1MS200X - FIS 200x Compact Microscope
F1VS400F2.5 - FIS 400x Handheld Microscope
F19786 - FIS 100x Handheld Universal Scope

F1-0053HARD

F1-0053BSC

CUSTOM KIT CASE OPTIONS

PART #	DESCRIPTION	DIMENSIONS & WEIGHT	PRICE
F1-0053HARD	FIS Standard Tool Case, Empty *	20'' x 8" x 15", 10 lbs	$100.00
F1-0053BSC	FIS Mini Soft Case, Empty	16" x 11" x 5", 4 lbs	90.00
F1-0053ET	FIS Double Deep Case, Empty	19" x 17" x 8", 9 lbs	160.00
F1-0053GTP	FIS Generic Elastic Band Stitched Pallet		30.00
F1-0053SFN	FIS Standard Die Cut Foam Bottom Insert For F1-0053HARD		25.00
F1-0053PPN	FIS Pick N' Pluck Bottom Foam Insert		40.00
F1-0053STPN	FIS Standard Leather Pallet		45.00

* Must order bottom insert & top pallet from choices above.

FIS LASER SAFETY GLASSES

These high quality safety glasses employ superior laser safety lens technology. Laser protective dyes are molded into the plastic and will not scratch off, photobleach or degrade over time. The lenses protect from light wavelengths in the range of 800-1790nm. Glasses come with a protective carry case, lanyard and cleaning cloth. There are 2 styles to choose from: standard wrap-around and over-the-glasses. These are proudly made in the USA.

F1-IRD5-35

NEW

PART #	DESCRIPTION	PRICE
F1-IRD5-35	FIS Laser Safety Glasses Wrap Around Style Adjustable Frames	$120.00
F1-IRD5-36	FIS Laser Safety Glasses Medium Style Adjustable Frames	120.00

F1-IRD5-36

3M LIGHTED SAFETY GLASSES

LightVision protective eyewear is industrial safety eyewear designed with integral hands-free lighting. Now, individuals can see and work in low light or dark environments with ultra-bright, adjustable LEDs on temples. Lights swivel for directional convenience, and long-lasting batteries provide up to 50 hours of continuous use. There are 2 styles to choose from: standard wrap-around and over-the-glasses.

11476-00000

NEW

PART #	DESCRIPTION	PRICE
11476-00000	3M LightVision 2 LED Safety Glasses	$15.00
11489-00000	3M Over-The-Glasses LightVision LED Safety Glasses	14.00

11489-00000

2012 Customer Appreciation

Buy 1, Get 1 Free Fiber Stripper PN F1-1301TX2*

F1-1301T

FIS PRECISION FIBER STRIPPERS

Choose from strippers that remove the 3mm jacket, 900µm and 250µm buffer coating. Precision blades produce consistent clean strips. Tool length: 6.25 inches

PART #	DESCRIPTION	PRICE
F1-1301T	250µm, 900µm & 3mm Fiber Optic Stripper Three Hole	$29.95
F1-1301TX2	Fiber Optic Stripper Three Hole - Buy One, Get One Free *	29.95
F1-1520	250µm, 900µm Outside Plant Buffer Stripper	30.95
F1-1500	Duplex Zipcord 900µm & 250µm Buffer Coating Stripper	30.95
F1-1212	Ribbon Stripper (outside jacket) (Not Pictured)	39.00

*Limited time offer, Some Restrictions apply, FIS Branded, not available to resellers.

WO-1224D

WO-1224

WO1224T

MILLER STRIPPERS

The Miller Stripper is an exceptional tool recommended for stripping 250µm coated fiber and 900µm buffer tube. The Miller Stripper has a .0055" (0.14mm) laser drilled hole, soft plastic-cushioned handle grip, and super accurate hardened stripping jaws, ensuring smooth clean stripping action.

PART #	DESCRIPTION	PRICE
WO-1224	Miller Stripper (Strips 250µm)	$39.50
WO-1224D	Dual Hole Stripper (Strips 250µm or 900µm)	66.00
WO-1224T	Tri Hole Stripper (Strips 250µm, 900µm, 3mm Jacket)	69.00

NN203
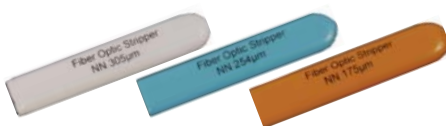
NO-NIK STRIPPERS

In a single short stroke, the red handle removes 900µm buffer tube and the 250µm or 500µm fiber coating on tight buffer cable. The mustard handle removes 250µm coating. The blue, white and green handles remove the larger tubes that contain fibers in loose tube cable applications. Brown & clear handles are available for your plastic fiber requirements. Also available is the No-Nik Fiber Optic Strip Kit.

PART #	DESCRIPTION	PRICE
NN203	No-Nik 203µm (Red) Strips 250µm or 500µm Coating & 900µm Buffer	$31.50
NN254	No-Nik 254µm (Blue) Strips Loose Tube	33.50
NN305	No-Nik 305µm (White) Strips Loose Tube	33.50
NN175	No-Nik 175µm (Mustard) Strips 250µm Coating	36.50
NN300	No-Nik Strip Kit (Mustard, Red & WO-1225) Strips 250µm, 500µm, 900µm/Buffer Tube & 3mm	123.50

RIPLEY

46107

MILLER CFS-2 STRIPPER

The new Miller CFS-2 Fiber Stripper has new "Super Comfort" grips. Ergonomically enhanced handles for extra comfort and ease of use. New factory set and locked calibration screw puck provides for better and more precise strips every time. One hole for removing 3mm jacket and the second opening to remove 250µm coatings. Replacement for Clauss.

PART #	DESCRIPTION	PRICE
46107	Miller CFS-2 Stripper	$21.95

F1-1171

Paladin Tools

45-352

IDEAL

PALADIN STRIPPER

The new multi-function fiber optic stripper from Paladin has five settings for stripping fiber optic cable. Strips outer jacket from 2.0-2.4mm fiber, 2.8-3.0mm fiber and 2.0-3.0mm loose tube buffer tubes. Strips 900µm buffer from loose buffer without removing acrylate coating. Strips buffer and acrylate from 900/125µm and 250/125µm fiber. Factory set and calibrated.

PART #	DESCRIPTION	PRICE
F1-1171	ProGrip 5 in 1 Fiber Optic Stripper	$48.00

MINILITE-STRIP™

The new MiniLite-Strip™ is small and features V-notch to remove buffer and coating from 125µm fiber. An additional larger V-notch removes a wide range of outer cable jacket installations.

PART #	DESCRIPTION	PRICE
45-352	Minilite-Strip	$45.20

Tools

IDEAL BUFFER TUBE STRIPPERS

Buffer Tube Strippers with adjustable blades can be set for any depth to help assure nick-free jacket entry. Use for simplex fiber and a variety of fiber optic cable up to 1/8 inch diameter. Loose tube fiber demands a precision tool capable of cutting different buffer tube diameters without nicking the enclosed fiber. Available is the blue buffer tube stripper for coaxial cable from 1/8 inch to 7/32 inch.

PART #	DESCRIPTION	PRICE
F1-0017	Grey Buffer Tube Stripper (For Fiber Applications)	$18.95
F1-0021	Blue Buffer Tube Stripper (For Coax Applications)	18.00
F1-0018	Replacement Blades (1 Set of 4 Blades)	7.50

F1-0017

THERMAL FIBER STRIPPER

The Soft Strip Thermal Stripping Tool contains a heating element that softens and strips 900μm coatings. The thermal stripper permits precise stripping of these tough coatings with less than 1 lb. of peak pulling force for a single optical fiber. Excellent for use on fiber optic couplers and other delicate components. Uses two "AA" batteries, not included.

PART #	DESCRIPTION	PRICE
F1-9999	Thermal Fiber Stripper	$145.00

F1-9999

MICRO-STRIP TOOL KIT

When working with optical fiber, you don't want your work to be compromised by accidentally damaging a fiber. The Fiber Optic Micro-Strip Tool Kit provides an easy and efficient way to strip fiber optic cable without nicking or damaging the optical fiber. Strips fiber buffers up to 900μm, and jackets up to 3.5 mm. Kit includes interchangeable/replaceable blades and tube guides.

PART #	DESCRIPTION	PRICE
MS-FOK1	Kit (10 blades for fiber range of 125μm to 1050μm)	$135.00
MS-1FS	Blade Holder	12.75
MS-1RB06S	Replacement Blade-Violet (Strips to 125μm)	35.00
MS-1RB12S	Replacement Blade-White (Strips to 250μm)	35.00
MS-1RB21S	Replacement Blade-Royal Blue (Strips to 500μm)	35.00

MS-FOK1

FITEL DE-RIBBONIZER

The S220A uses two finely positioned blades to shave the matrix off the top and bottom of ribbon fiber while leaving the individual fiber jackets untouched. After the matrix is removed, the fibers separate out easily by hand. For use with 300 and 400μm ribbons of 2 to 12 strands. Blade life is 1,000 separations.

PART #	DESCRIPTION	PRICE
S220A	Fitel De-Ribbonizer	$715.00

S220A

NO EXPORT

JIC-4366

OPTICAL FIBER SHEATH STRIPPER & RING TOOL

Used for stripping and butting tight buffer optical fiber cables. Use one blade to butt PVC sheathing and use the second blade to strip the sheathing. Adjustable for .018" or .031" thick plastic, rubber or fabric insulation.

PART #	DESCRIPTION	PRICE
JIC-4366	Optical Fiber Sheath Stripper	$47.95

MS-KS-1

RIBBON STRIPPING KIT

This unique thermal stripping kit includes the patented "Soft-Strip" thermal stripping system and contains components for stripping from 4 to 12-fiber ribbon of various constructions: 'Bonded', 'Encapsulated' or 'Ribbonized' types. AC adapter sold separately.

PART #	DESCRIPTION	PRICE
MS-SK-1	Ribbon Stripping Kit	$475.00
MS-T3	120 Volt AC Adapter for Thermal Stripper	39.00

US CONEC RIBBON STRIPPER

The US Conec Optical Cable Jacket Removal Tool eliminates the need for sharp tools such as Exacto® knives or razor blades for cable jacket removal. The tool is designed for quick, reliable, economical removal of PVC jacket from ribbon interconnect cable, 3mm round cable and 2 fiber zipcord.

PART #	DESCRIPTION	PRICE
F1-2009	US Conec Ribbon Stripper	$25.00

F1-0016

NEW

1917

T-STYLE JACKET STRIPPER

The dual "V" notch blade allows the quick removal of outer jacket. Plier nose, along with cushion grips and spring release are additional features making this stripper comparable to the Ideal T-Type® Stripper.

PART #	DESCRIPTION	PRICE
F1-0016	T-Style Stripper, 16-20 AWG	$8.95
1917	Greenlee Stripper, 10-20 AWG	12.95

Tools

F1-0020

F1-KS1

F1-6430

PA-1510A

KEVLAR® CUTTERS

When cutting Kevlar®, you need a cutting tool with very durable blades. You also want the tool to cut cleanly, and to fit comfortably in your hand. FIS offers five Kevlar® cutters that fit the bill. The Kevlar® cutter, F1-KS1, features serrated blades and high leverage cutting, utilizing long cushioned handles. The Miller Kevlar® cutter, F1-9809, also features serrated blades and cushion handles. The Ceramic Kevlar® cutter, PA-1510A, has ceramic blades that last up to 50 times longer than stainless blades.

PART #	DESCRIPTION	PRICE
F1-0020	Economy Kevlar® Cutters (Metal Blade)	$5.95
F1-KS1	Miller Scissors (Carbon Molybdenum & Vanadium Steel Blade)	12.00
F1-6430	Kevlar- Cutters (Carbon Steel Blade)	22.95
F1-9809	Miller Kevlar® Cutters (Steel Blade) (Not Pictured)	25.95
PA-1510A	Ceramic Kevlar® Cutters (Ceramic Blade)	29.95

925CS-ERGO

THT-2140C

925CS

925CS-KIT
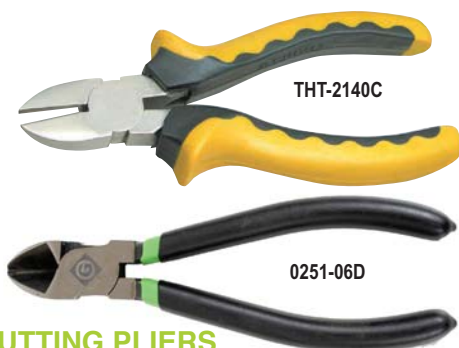
0251-06D

SIDE CUTTING PLIERS

The 6" side cutting pliers feature 1" cutting head for flush cutting, dual color cushioned handles and are manufactured of hardened steel.

PART #	DESCRIPTION	PRICE
THT-2140C	6" Side Cutting Pliers	$5.95
0251-06D	Greenlee 6" Side Cutting Pliers	16.50

MILLER SCISSORS/SPLICER KIT

Ergonomic snip for linemen and installers. One blade features ergonomically shaped, cushioned palm rest and the other blade has the traditional ring bow.

PART	DESCRIPTION	PRICE
925CS-ERGO	Ergonomic Scissor/Splicer Snips	$16.95
925CS	Traditional Serrated Scissor	13.95
925CS-KIT	Splicer's Kit	29.95

F1-900759 NEW

F1-727 NEW

RATCHETING CABLE CUTTERS

The Ratcheting Cutter is great for aluminum armor, not intended for ACSR. Cuts up to 35mm diameter.

PART #	DESCRIPTION	PRICE
F1-900759	Greenlee Fully Ratcheting Cable Cutter	$221.50
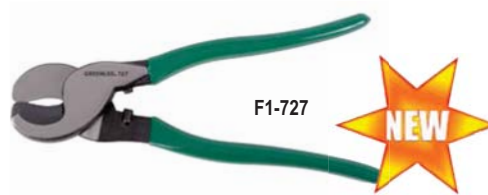
HIGH LEVERAGE CABLE CUTTERS

This is a utility cable cutter for up to 70mm cable. This manual tool is great for standard power, coaxial, and non-armored cables.

PART #	DESCRIPTION	PRICE
F1-727	Greenlee Cable Cutters	$28.95

JIC-683

0151-08D NEW

JIC-2288

0251-08M

NEW GREENLEE

LINEMAN'S B SIDE CUT PLIERS

These pliers are high leverage for cutting bolts, nails, and many gauges of wire including high-strength wire. Cutting edges cut clean and remain sharp.

PART #	DESCRIPTION	PRICE
JIC-683	Lineman's B Side Cut Pliers	$16.45
0151-08D	Greenlee 8" High Leverage Side Cutting Pliers	26.60

HIGH LEVERAGE DIAGONAL CUTTERS

Crafted for heavy-duty wire cutting and made of specially forged alloy steel designed for strength and cutting ability.

PART #	DESCRIPTION	PRICE
JIC-2288	8" High Leverage Diagonal Cutter	$16.50
0251-08M	Greenlee 8" High Leverage Diagonal Cutter	25.90
0251-08D	Greenlee 8" High Leverage Diagonal Cutter (Not Pictured)	24.00

0652-11

9952-11

0652-23

0652-22

0652-28

0652-25

NEW NEW NEW NEW

UTILITY KNIVES

We have a range of utility knives for the job. Choose your knife, whether it is the easy front-loading quick blade change utility knife (0652-11) or the folding knives with lock-back feature for safety (0652-23 & 0652-22). Both the Hawkbill (0652-28) with corrosion resistance stainless steel blade and the Titanium coated stainless blade knives have a lock-back for increased safety.

PART #	DESCRIPTION	PRICE
0652-11	Utility Knife - Molded for secure, comfortable grip, retractable 3-position blade for safety & conveience, Pop-up holder for blade storage	$6.95
9952-11	Replacement Blades (5pk)	2.95
0652-23	Folding Utility Knife - High finish stainless steel handle with molded features for added comfort in rugged environments, 10 extra blades	14.25
0652-22	Folding Utility Knife - High finish stainless steel handle with molded features for added comfort in rugged environments, 10 extra blades	10.05
0652-28	Hawkbill Knife - 440C Stainless Steel Blade & a contoured Rosewood Handle for a comfortable hand fit, Belt Clip for added convenience	18.40
0652-25	Titanium Knife - 40% serrated edge for tough cutting, aircraft-grade aluminum handle to endure extra rough handling, Belt Clip for added convenience	24.00

GT-12

301A

0153-02C

0253-02C

NEW NEW

NON-CONTACT VOLTAGE DETECTOR

- Automatic self-test verifies the integrity of the unit
- Use to detect voltage in outlets, lighting fixtures, circuit breakers, wires and cables
- Low battery indicator
- Lifetime Limited Warranty

PART #	DESCRIPTION	PRICE
GT-12	Voltage Detector	$16.95

6" KEYHOLE SAW

This keyhole saw has an integrated blade that provides maximum strength and an ergnomic handle with non-slip grip. With its hardened steel blade with clog-free teeth it has a pointed tip that easily punches through drywall. Blade cuts on both push and pull strokes.

PART #	DESCRIPTION	PRICE
301A	6" Keyhole Saw	$10.00

7pc. NUT DRIVER / SCREW DRIVER SETS

The sets have rugged hollow shafts and heavy duty construction for longer life. Handles & shafts marked for easy identification of nut driver size.

Nut Driver Set Contains: 3/16", ¼", 5/16", 11/32", 3/8", 7/16", & ½" Nut Drivers w/ 3" Shank

Screw Driver Set Contains: 3/16"x 4", 3/16"x6" & ¼"x4" Cabinet Tips, ¼"x4" & 5/16"x6" Keystone Tip, #1x3" & #2x4" Phillips Tip

PART #	DESCRIPTION	PRICE
0253-02C	7pc. Nut Driver Set	$36.65
0153-02C	7pc. Screw Driver Set	39.98

0351-06M

0451-10M

0154-12C

NEW NEW NEW

6" LONG NOSE SIDE CUTTING PLIERS

- Forged from chrome vanadium steel for greater durability and strength
- Cuts both solid & stranded copper wire
- Serrated jaws & laser-hardened cutting edges
- Through-hardened steel for longer life
- Rugged riveted construction for smooth precise action

PART #	DESCRIPTION	PRICE
0351-06M	6" Side Cutting Pliers	$18.25

CHANNEL LOCK PLIERS

- Precision-machined & through-hardened for consistent performance
- Right angled teeth for gripping in both directions
- Riveting process ensures joint integrity
- Wider grip design provides larger load bearing area

PART #	DESCRIPTION	PRICE
0451-10M	Channel Lock Pliers	$20.05

ADJUSTABLE WRENCH

- Patented lightweight ergonomic design reduces user fatigue
- Tight tolerances for professional feel & smooth operation
- Wide capacity jaw design provides extra versatility
- Measuring scale - easy sizing
- Corrosion-resistant finish

PART #	DESCRIPTION	PRICE
0154-12C	Adjustable Wrench	$39.40

SLITTERS/REMOVAL TOOLS

MILLER®

MK02

Paladin Tools®

PA1822

*Not for use with armored cable

ROUND CABLE SLITTER

The Round Cable Slitter removes outer jackets and insulations from 4.5mm to 28.5mm O.D. Stripping action is both circumferential, then longitudinal for removal of insulation section at the end or mid-span of wires. Adjustable depth up to 3mm. Weight: 4.2oz, Dimensions: 135 x 40 x 15mm.

PART #	DESCRIPTION	PRICE
MK02	Slitter	$35.95
39391	Spherical Cutting Replacement Blades	20.50

UNIVERSAL PALADIN SLITTER

Slit/Strip/Remove 0.18" -1.40" diameter 500-1200-MCM power/telecom round cables' rubber/PVC/nylon insulation. For mid-point taps. Cable support arm, stainless steel blade.

PART #	DESCRIPTION	PRICE
PA1822	Universal Paladin Slitter	$25.99

MILLER®

F1-114

IDEAL®

35782

RIPLEY®

F1-ACS

MILLER ROUND CABLE SLITTER

The Miller Cable Slitters are manually operated cutting devices designed for fast, safe and precise jacket removal of PE, PVC and rubber jacket. The F1-114 is designed to strip cables from 4.5mm to 29mm Diameter. The F1-158 is designed to strip cables from 19mm to 40mm Diameter.

PART #	DESCRIPTION	PRICE
F1-114	Round Cable Slitter (4.5mm to 29mm diameter) (pictured)	$40.50
F1-158	Round Cable Slitter (19mm to 40mm diameter) (not pictured)	61.50
F1-231	1 Replacement Blade	9.60

ARMORED CABLE SLITTER

This tool slits outer polyethylene jacket and armor in one operation. Performs longitudinal slitting and circumferential (ringing) for end stripping. Blade rotates 90º by activating blade lever, allowing easy mid-span preparation (ringing & splitting) – Replacement blades available. Adjusts from 8-28.6mm OD.

PART #	DESCRIPTION	PRICE
F1-ACS	Armored Cable Slitter	$119.00
F1-CB251K	Replacement Blade	34.50
35782	Ideal Rotary Armored Cable Cutter w/Lever	28.00

FOD-2000

CORNING

RST-000

DROP CABLE SLITTER

The FOD-2000 Fiber Optic Drop Cable Slitter is a patent pending tool that simplifies the slitting of drop cable jackets at the end of the cable or mid-span. The FOD-2000 puts a slit on both sides of the jacket allowing easy access to the fiber or strength member.

PART #	DESCRIPTION	PRICE
FOD-2000	Drop Cable Slitter	$39.50
FOD-RB25	Replacement Blade for the FOD-2000 (Pack of 25)	41.60

CORNING RIBBON SPLITTING TOOL

The tool closes around the ribbon fibers, as the ribbon settles into the proper slot. With actuator depressed, the tool slides along a length of the ribbon, separating the length of ribbon that is needed into smaller ribbon counts. The tool has slots to separate the ribbon into the following smaller ribbon counts: 2/2, 2/4, 2/6, 4/4, 2/10, 4/8, 6/6, and 12/12.

PART #	DESCRIPTION	PRICE
RST-000	Corning Ribbon Splitting Tool	$1,250.00

F1-SF1

NEW

808060

FOC-100

SKINNY FINGERS

The Fiber Optic Connector Insertion/Extraction Tools are capable of reaching into very tight spaces to perform these tasks. It has been designed to work with virtually all rectangular or square cross-section connectors.

PART #	DESCRIPTION	PRICE
F1-SF1	Extraction Tool	$60.00
808060	Ripley Extraction Tool	36.65
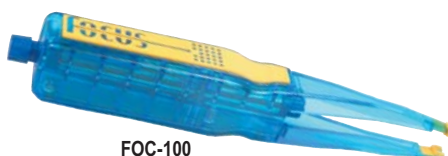
FOCUS™ REMOVAL TOOL

The Focus™ tool from Cable Prep® inserts and removes SC and LC fiber optic connectors without disturbing adjacent connectors, even when working on densely populated panels.

PART #	DESCRIPTION	PRICE
FOC-100	Removal Tool	$58.95

MID-SPAN ACCESS TOOL

The Miller Mid-Span Access Tool (MSAT-5) is used to quickly and easily access fibers in 1.9mm to 3mm buffer tubes in a mid-span location without damage to fiber. No blade adjustment is necessary, as the factory precisely mounts the blades in the tube slitting channels, resulting in consistent and accurate shaves. The tool design incorporates buffer tube size gauges on the tool body for ease of selecting proper tube slitting channel.

PART #	DESCRIPTION	PRICE
MSAT-5	Mid-Span Access Tool	$65.00

MSAT-5

DRAKA BUFFER TUBE ACCESS TOOL

This tool is designed for mid-span entry to fibers in a multiple of buffer tube sizes. The tool "shaves" only the tube wall to access the fibers providing a safe, reliable access. The tool kit includes interchangeable inserts supporting 2.5mm, 2.7mm and 3.0mm buffer tubes. Other tube insert sizes available from 1.5mm to 4.3mm at additional cost.

Includes: Tool, Carry Case, Inserts, Spare Blade And Spare Head Screw

PART #	DESCRIPTION	PRICE
20021562	Buffer Tube Access Tool	$946.70

20021562

MILLER FIBER BUFFER TUBE AND DROP CABLE SLITTER

The 400 Series Kit is for mid-span and end slitting of fiber buffer tubes and fiber drop cable. Interchangeable color coded head blocks matched to buffer tube or drop cable size. Standard kit contains tool body and 3 pairs of interchangeable heads all packed in a durable plastic carrying case. Block sizes, included in standard kit, slit the following cable sizes: 2.5 mm, 3.0 mm buffer tubes and 4.4 x 8.2 mm fiber drop cable.

PART #	DESCRIPTION	PRICE
80830	Fiber Buffer Tube and Drop Cable Slittler	$395.50

NEW

80830

MILLER BRIGHTPATH MID-SPAN ENTRY TOOL

Designed to mid-span entry access CommScope BrightPath Self Supporting Figure 8 outdoor fiber drop cable. Tool has two shaving channels, one to remove the outer MPDE jacket and one to access the 4mm buffer tube fibers.

PART #	DESCRIPTION	PRICE
42555	Miller Drop Cable Stripper	$210.00
37048	Replacement Blade for jacket and 4mm channel	41.00

42555

80785

MILLER MID-SPAN ACCESS TOOL

Tool can access fibers in 2.0mm, 2.5mm, and 3.0mm buffer tubes. Buffer tube size gauges are located on the tool body for ease of selecting proper tube slitting channel.

PART #	DESCRIPTION	PRICE
80785	Mid Span Tool	$215.00
80794	Replacement Blade (1 set)	33.00

CORNING CABLE SYSTEMS MID-ACCESS TOOL

Cutting a buffer tube mid-span without damaging the optical fibers inside can be a challenge - unless you have this specialized tool. Simply attach the tool and pull it along the buffer tube to slit the tube safely.

PART #	DESCRIPTION	PRICE
OFT-000	For 2.4mm - 3.0mm Tubes CCS Mid-Access Tool	$245.00
OFT-001	Replacement Blade for OFT-000	17.50
UAT-3000	For 5mm - 24mm Tubes Enhanced Universal Access Tool	725.00
UAT3-BLADES	Replacement Blade for UAT-3000	76.50

UAT-3000

OFT-000

CORNING

MULTI-QUICK SPLIT MID-ENTRY TOOL

The Multi-Quick Split Buffer Tube Splitting Tool is designed to provide mid-entry access to buffer tube cables. This rugged hand held tool splits the buffer tube in two halves without disturbing the fibers. The Quick Split has a unique gauging system enabling a precise slit for 2.5mm and 3.0mm cables.

Kit Includes: two tools, extra blades and allen wrench.

PART #	DESCRIPTION	PRICE
2000US	Multi-Quick Split	$520.00
12360RB	Multi-Quick Replacement Blades per piece	1.05

2000US
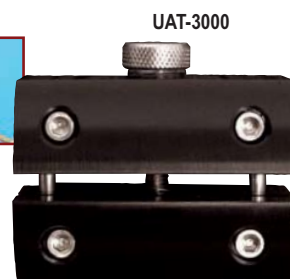
Tools

FIS SCRIBE TOOLS

FIS DELUXE DIAMOND SCRIBE

Housed in a deluxe metal casing. The Deluxe Diamond Scribe offers a retractable 60º cone point.

PART #	DESCRIPTION	PRICE 1-5	PRICE 6+
WO-1223	FIS Deluxe Diamond Scribe	$17.95	$15.95

FIS ECONOMY DIAMOND SCRIBE

This Economy Scribe has a 60º cone point and is housed in a rugged white plastic housing.

PART #	DESCRIPTION	PRICE 1-5	PRICE 6+
FO-90-C	FIS Economy Diamond Scribe	$7.00	$6.50

FIS SAPPHIRE SCRIBE

For a wider cutting surface, this scribe offers a 90º wedge. Housed in a deluxe metal casing.

PART #	DESCRIPTION	PRICE
FO-90-S	FIS Sapphire Scribe	$19.95

FIS 90° WEDGE DIAMOND SCRIBE

Provides for a wider cutting surface. The 90º Wedge Diamond Scribe is packaged in a rugged blue plastic housing.

PART #	DESCRIPTION	PRICE
FO-90-W	FIS 90º Wedge Diamond Scribe	$35.00

FIS CARBIDE SCRIBE

This Carbide Scribe offers a wide cutting surface in a plastic pen-like housing.

PART #	DESCRIPTION	PRICE
F1-9773	FIS Carbide Scribe	$19.95

MOLEX UNIVERSAL CLEAVE TOOL

The Molex Universal Cleave Tool is designed to provide a high quality cleave when connectorizing Molex fiber optic connectors. The hand held tool looks similar to a scribe, but cleaves with precise accuracy. Use with Molex connectors only.

PART #	DESCRIPTION	PRICE
8675-32000	Molex Universal Cleave Tool	$265.00

IDEAL SCRIBE TOOLS

All three Ideal Scribes offer 30º beveled DualScribe™ reversible blades doubling the tools' useful life. Non-slip grips offer precise control during scribing. Clear safety caps protect blades when not in use.

PART #	DESCRIPTION	PRICE
45358	Sapphire Blade DualScribe™ (blue handle)	$25.65
45357	Ruby Blade DualScribe™ (red handle)	25.65
45359	Carbide Blade DualScribe™ (black handle)	39.25

45358

45357

45359

FIS FIBER OPTIC CRIMP TOOLS

Fiber optic connectors call for precision crimping which must meet non-optical disconnect requirements and increased pull strength demands. The FIS Crimp Tool is designed to successfully assemble a variety of connector styles for maximum optical performance and mechanical strength. The FIS Crimp Tool, part number F1-3227, contains 4 crimp sizes; .128, .137, .151 and .190 inches.

PART #	DESCRIPTION	PRICE
F1-3227	FIS Crimp Tool (Die & Handle) ST/FC/SC	$35.00
F1-8888	FIS MT-RJ Crimp Tool (.151 round, .190 round)	110.00
F1-8825	FIS MU/LC Crimp Tool & Die (.120 round, .128 round)	75.00
F1-1302	FIS Crimp Tool Handle	30.00
PA-1330	Paladin SMA Triple Hex Tool & Die (.151, .178, .213)	47.95
PA-1331	Paladin Triple Round Tool & Die (.133, .160, .195)	47.95

F1-3227

FIS CRIMP TOOL DIES

PART #	DESCRIPTION	PRICE
F1-8825LM	FIS MU/LC Crimp Die (.120 Round, .128 Hex)	$35.00
F1-3227M	FIS Crimp Tool Die (.128, .137, .151, .190)	18.00
PA-2051	Triple Hex Die (.068, .128, .178)	25.00

F1-8825LM

ADDITIONAL CRIMP TOOLS

PART#	CONN. MFG	CONNECTOR TYPE	PRICE
F1-3227	FIS	ST	$35.00
6365CT	3M	FC/SC	150.00
PMT-4300-2623	Seikoh Deluxe Crimp Tool with Case (No Dies)	ALL	185.40
PMT-4300-2629	Seikoh Crimp Die for PMT System (2.0mm)	FC/SC	125.70
PMT-4300-2630	Seikoh Crimp Die for PMT System (3.0mm)	FC/SC	125.70
320103101	CCS	ST/FC/SC	215.00
PA-1330	Paladin	ST	51.75
106753-5000	Molex	FC	175.00
106760-5000	Molex	SC	240.00
106730-5000	Molex	MTRJ	240.00
106760-5010	Molex (FDDI/ESCON)	Zipcord	220.00
106730-5000	Molex (FDDI/ESCON)	Round	240.00
106744-5000	Molex	LC	425.00

F1-3227M

A   B   C   D

NEW

SAFETY GLOVES

PART #	DESCRIPTION	PRICE
F1-27505	Ruf-Flex Air (A) - Nylon shell foam latex coated glove (Large)	$4.95
F1-27356	Ninja Flex (B) - Nylon shell latex coated glove (Large)	4.95
F1-123L	Work Right Gloves (C) (Large)	8.95
0358-13L	Greenlee Handyman Gloves (D) (Large)	12.00

NEW

0155-200

0155-25A

DW-500

POWER RETURN TAPE MEASURES

Rigid 1"wide nylon coated double sided blade. An easy to use Click Lock.

PART #	DESCRIPTION	PRICE
0155-25A	Greenlee Power Return Tape Meaure, 25 Ft.	$10.25
0155-7MA	Greenlee Fiberglass Measuring Tape, 7.5 Meters	11.00

FIBERGLASS MEASURING TAPES

2-sided, 2 color tape features decimal feet and fractional inches.

PART #	DESCRIPTION	PRICE
0155-200	Greenlee Fiberglass Measuring Tape - 200 Feet	$56.00

DURAWHEEL

The DuraWheel is ideal when you need to measure distances that are beyond the length of measuring tapes. Designed for rugged commercial use, the DW-PRO comes with a case, pistol grip brake and counter controls. Case sold separate w/ all other units.

PART #	DESCRIPTION	PRICE
DW-500	DuraWheel (6" wheel diameter) (feet)	$95.00
DW-1000	DuraWheel (12.5" wheel diameter) (feet)	115.00
DW-1000M	DuraWheel (12.5" wheel diameter) (metric)	115.00
DW-PRO	DuraWheel Pro (12.5" wheel diameter) (feet)	155.00

NEW

CM-450

TRUE RMS CLAMP METER

True RMS for the most accurate measurement where harmonics are present. Quick and easy operation. Auto power shut off for longer battery life. Audible continuity and diode tests. Frequency measurement. Data hold to capture measurements;4000 count LCD;Includes 3 volt standard button battery. Lifetime limited warranty

PART #	DESCRIPTION	PRICE
CM-450	True RMS Clamp Meter	$39.95

NEW

FLEXIBLE LED FLASHLIGHT

• Small 9/32" head will illuminate tight spaces other flashlights can not
• Runs up to 1000 hours on 2 AA batteries (included)

PART #	DESCRIPTION	PRICE
FL2AAF	Flexible LED Flashlight	$14.60

0158-12

F1-9119

18" GREENLEE HEAVY DUTY BAG

The Heavy Duty Bag has 31 multi-use pockets. A large opening steel-framed mouth with hinge & zipper. Constructed of heavy-duty nylon for longer life.

PART #	DESCRIPTION	PRICE
0158-12	18" Greenlee Heavy Duty Bag	$39.95

GATEMOUTH TOOL BAG

The Gatemouth Tool Bag has 23 pockets to organize hand tools. Its wide opening accepts several different tools and the reinforced bottom protects tools.

PART #	DESCRIPTION	PRICE
F1-9119	Gatemouth Tool Bag	$27.55

GREENLEE D'VERSIBIT

The D'VersiBIT® System makes it easy to install various cables in preexisting structures. This patented system attaches a boring drill bit to a long flexible spring steel shaft. When used with the Placement Tool, the shaft can be flexed into position to gain optimal drilling angle within walls.

PART #	DESCRIPTION	PRICE
921-KIT	Quick CONNECT Extension System Kit	$55.00
921-18	18" Extension	20.25
921-24	24" Extension	21.75
921-36	36" Extension	24.00
DBITKIT	D'VersiBIT Kit with 9/16" Bit	59.95

GREENLEE 68 PIECE DRILL DRIVER KIT

Made for the Trade - All bits are professional grade and meet or exceed ASTM standards. Masonry drills have a hardened shank that is hammer drill rated for better impact driving. High speed drills are titanium nitride coated, so they last longer and self-center so they don't walk when drilling. Greenlee's bits and drills in the new Electricians Drill/Driver kit are made for the demands of the trade. Ease and Convenience - All bits and drills in the kit have ¼" Quick Change hex for fast, easy changeovers. Nut drivers are magnetic and fit most TapCon® fasteners. Kit also includes a 3" magnetic bit holder and quick release chuck with a precise fit and no play so the bit won't wobble when drilling.

PART #	DESCRIPTION	PRICE
DDKIT-1-68	68 Piece Drill Driver Kit	$51.95

SHRINK TUBE KIT

A complete, compact kit that includes a lightweight, portable heat gun and a variety of multicolored heat shrinkable tubing in six-inch cut pieces. Used for splicing, identification, cable repair.

PART #	DESCRIPTION	PRICE
FITMINIGUN	Portable Heat Gun Kit w/ variety pack (110V Only)	$100.50
FIT221	Variety Pack Refill (60 6" cut pieces)	29.35

FITMINIGUN

COLORED SHRINK TUBES

The 13mm & 26mm are quality shrink tubes that contain adhesive inside of the tube.

PART #	DESCRIPTION	PRICE
F1-5527-GN	Green Shrink Tube (3/16")	39¢ ft
F1-5527-RD	Red Shrink Tube (3/16")	39¢ ft
F1-5527-BL	Black Shrink Tube (3/16")	39¢ ft
F1-5527-YE	Yellow Shrink Tube (3/16")	39¢ ft
F1-5527-13A	13mm Black Adhesive Shrink Tube	80¢ ft
F1-5527-26A	26mm Black Adhesive Shrink Tube	$1.75 ft

F1-5527　　**F1-0811**

MICRO TORCH

This economical and handy size micro torch is perfect for use with heat shrinkable products. Refill with popular disposable butane lighters. Ground Shipment Only.

PART #	DESCRIPTION	PRICE
F1-0811	Mirco Torch	$10.70

HEAT GUN

The FIS Heat Gun is designed to shrink splice protection sleeves or breakout kit shrink tube. The heat gun provides a variable temperature range adjustment, allowing the user to apply the required heat.

PART #	DESCRIPTION	PRICE
F1-0911D	FIS Digital Heat Gun 110V	$45.00
F1-0912	FIS Heat Gun 220V	145.00

F1-0911D

3M SCOTCH VINYL ELECTRICAL TAPES

Identify a cable or meet specific color needs with 3M electrical tape in the color of your choice. Tape holds firmly, yet has excellent stretch and conformability. Color tapes sold in rolls of 10, Black tape sold per each.
xx- Replace with RD(Red), WH(White), BL(Blue), YL(Yellow), GN(Green), OR(Orange), GY(Grey), BN(Brown), VL(Violet)

PART #	DESCRIPTION	PRICE
35-xx20	3M 35 Series Electrical Tape (½" x20') - 10 rolls/pkg	$12.00/Roll
88T3/4X60	3M 88T Series All Weather Electrical Tape Black (¾" x 60')	$2.65

3M DUCT TAPE

3M Duct Tape is a high quality polyethylene coated cloth tape to be used for moisture proofing, duct sealing, protecting, and just about any other general purpose repair or patch. Available in Gray or Black color.

PART #	DESCRIPTION	PRICE
3939	3M Duct Tape Color Gray - 2" x 60yds.	$7.50
3903	3M Duct Tape Color Black - 2" x 50yds.	4.10

438-2X **438-5H** **FS439100**

GREENLEE MAGNUM PRO FISH TAPES

All Greenlee MagnumPRO fish tapes include such new features as a rapid tape pay-out and rewind mechanism to help speed up the movement of the fish tape and a smaller fish eye with an offset bend for improved fishing ability. The MagnumPRO fish tapes also come with a viewing port that allows for visibility of the remaining tape in the case and gives the end-user the ability to remove jobsite debris quickly.

PART #	DESCRIPTION	PRICE
438-2X	25' x 1/4" Flat Steel Fish Tape	$13.00
438-5H	50' x 1/8" Steel Fish Tap w/Winder Case	21.50
FTS438-125BP	125' x 1/8" Steel Fish Tape	41.15
FS439100	100' x 3/16" Flexible Steel Fish Tape	138.80
FTF540100	100' X .175" Fiberglass	183.55

10498 **11426** **10497**

GREENLEE FISH POLES

Greenlee has the most innovative fishing systems designed to perform on the jobsite. Whether you're going a few short feet or through many walls and bends, having Greenlee's Fish pole products on the jobsite will make the job easier for any commercial, industrial or utility application. These lightweight, durable poles are designed for both pushing and pulling cables and allow for use in cramped spaces.

PART #	DESCRIPTION	PRICE
540-15	3/16" Glo Stix 15' Kit	$47.95
11427	3/16" x 5' Glo Stix Replacement 15 ft Section	16.95
11426	Whisk Nose Tip	11.95
10497	Hook Nose Tip	9.75
10498	Bullet Nose Tip	5.50
FP12	12 Foot Fish Pole	44.50
FP18	18 Foot Fish Pole	75.00

FP12

CABLE CASTER

This hand held device enables installers to fire a dart with pull rope up to 50 ft. Monofilament line attached to the dart is projected out from a take-up reel on the Cable Caster. Pull strings or ropes can be attached to the monofilament line and reeled back to the installer.

PART #	DESCRIPTION	PRICE
F1-9112	Cable Caster Installation Tool	$62.50
F1-6259	Cable Caster Darts (4 Pack)	7.25

F1-9112

GREENLEE VACUUM PULLER

The 390 is a system designed to work in conjunction with a 392 or 592 accessory kit to "fish" and vacuum line through ½' to 4" conduit with the use of conduit pistons that form a flexible seal in the conduit.

PART #	DESCRIPTION	PRICE
390	Li'l Fisher Vacuum/Blower Kit	$600.00
F1-392	Li'l Fisher Accessory Kit	170.00

390

FIS CABLE DISPENSER

Cable Dispenser locks into an open position on padded, anti-skid legs that cannot collapse. A removable, 5/8" solid spindle, capable of holding over 200 lbs., allows for simple installation of cable reels up to 25" in diameter and 16" in width.

PART #	DESCRIPTION	PRICE
F1-6111	Cable Dispenser	$155.00

F1-6111

Tools

Pulling Eye   **Cable Netting**

FIS FIBER OPTIC PULLING EYE & CABLE NETTING

The FIS pulling eye will protect connectors while providing a pulling point with properly distributed tensions on cable assemblies. Available as a stand-alone component or installed by FIS on your custom cable assembly. The pulling eye has a rotating end clip to minimize cable twisting and the connectors are protected with cable netting.

PART #	DESCRIPTION	PRICE
F1-1001	FIS Pulling Eye Kit for Multifibers	$9.95
F1-1001BR	FIS Pulling Eye Kit for Simplex & Duplex	5.95
F1-1001A	Pulling Eye Installed by FIS	19.95
F1-5700	Cable Netting (Expands uo tp 2", pulls down to 1/2")	99¢ /FT

GREENLEE PULLING LINES

• Strong, lightweight nylon
• Center feed for fast payout without tangling
• Mildew-resistant, can be pulled into the run with the wire to provide a means to add wires later

PART #	DESCRIPTION	PRICE
595	2,150' Center Feed Fish Line	$35.95
604	2,200' Outside Feed Fish Line	31.75
430	6,500' Poly Line	50.00
430-500	500' Poly Line	8.50

430-500   **430**

TRACERTAPE™

Tracertape™ is a functional product that is used for locating, pulling and measuring your duct and fiber. The Tracertape incorporates a solid corrosion resistant copper conductor which provides easy detection. Also available in 5,000 ft. reels. Call for double wire tracer tape. (not pictured)

TracerTape™

PART #	DESCRIPTION	TENSILE/LBS.	PRICE
WPT1250	3,000 ft. Single Wire Reel	1,250 lbs.	$260.00

POLYESTER FIBER PULL TAPE

This product is available with a silicone lubricant, which is comparable with the lubricant used in the manufacturing of Innerduct, and greatly reduces the possibility of burn-through. The tapes are available with printed sequential footage markings for accurate measurements. Also available in 3,000 & 5,000 ft. reels.

Polyester Fiber Pull Tape

PART #	DESCRIPTION	TENSILE/LBS.	PRICE
WP1250-500	500 ft. Metal Spool	1,250 lbs.	$38.55
WP1250-I	1,000 ft. Wooden Reel	1,250 lbs.	53.00

CABLE PULLING LUBRICANT

Techlube FO (fiber optic) pulling lubricant is a high performance, pourable liquid polymer that was engineered to meet the special requirements of pulling innerduct, communications, coaxial and fiber optic cables. Techlube has superior friction reduction capabilities that make it an excellent choice for long distance and/or difficult placing applications.

TLF001J

PART #	DESCRIPTION	PRICE
TLF001J	1 Gallon Jug Cable Pulling Lubricant	$19.95

GREENLEE CABLE LUBE

• Designed for use within electrical or datacom cable pulls. Clear and colorless for quick, easy clean-up
• Excellent lubricity for fast pulls (.27-.29 COF)
• Environmentally safe, non-hazardous, non-toxic and non-corrosive
• Easy to apply either by hand, brush or pump

CLR-5

PART #	DESCRIPTION	PRICE
CLR-5	5 Gallon Bucket	$57.95

F1-Alum   F1-Flex   F1-Dome

Custom Prints Available

NEW

SIGNS/POSTS

Baked Enamel aluminum sign with clear protective coat forms extra UV and fade resistance. Fiberglass flexible marker post, 6ft, orange, with 2.875" x 13" vinyl/teldar label applied. No anchors are included. Dome Marker Post, 6ft, orange cap printed with black graphics.

PART #	DESCRIPTION	PRICE
F1-Alum	Aluminum Sign, 9" x 12", black on orange	$18.00
F1-Flex	Flexible Line Marker Post, 3" x 6',orange	20.00
F1-Dome	Domed Post, 3" x 6', orange cap, white pipe	24.00

WARNING LABELS

Warning labels are available from FIS in a variety of sizes and colors with many standard logos offered. Selection includes Wrap Around, Tie On, Sticky Back and Write-On. Call for Custom Labels.

PART #	DESCRIPTION	PRICE
F1-0099-SF	8" Long Wrap Around Label (Black on Orange) (A)	$1.25
F1-0094F	4" Long Wrap Around Label (Black on Orange) (B)	1.25
F1-0100SF	3-7/8" x 1-3/4" Tie On (Black on Orange-20pk) (C)	12.00
F1-0100SL	3-7/8" x 1-3/4" Tie On with self laminating flap (20-pk) (D)	13.60
F1-0095	Write-On Cover All Tag (Black on Yellow-25-pk) (E)	18.75
F1-0099F	2-3/4" x 4" Sticky Back (Black on Orange) (F)	50¢
F1-0096F	3-1/4" x 1-3/4" Sticky Back Label (Black on Yellow) (G)	50¢
F1-0092	2-3/4" x 5" Sticky Back Label (Black on Yellow) (Same Text as F and G)	60¢
F1-3801	Outdoor Durable Permanent Black Marker (Not Pictured)	1.10

CABLE CLIPPER LABELS

Extruded outdoor-durable black PVC cable marker clips over cable. Fits cable diameters 0.5" to 1.0". Additional size available for 0.25" diameter. Secured to cable with urethane adhesive strip. Labels available in a variety of colors to include your company name, logo, and emergency phone numbers. Background is brightly colored with Arial font black letters. Outdoor durable, minimum 10 years. Easy to read from ground, text height approximately 0.75" to 1". Standard size clipper is 6" length.

PART #	DESCRIPTION	PRICE
F1-CC	Clips with Reflective Laminated Label Applied. 6" Length. (generic print)	$4.60

BURIED CABLE MARKER TAPES

Protect and locate buried fiber optic cable by placing buried marker tape above cable. Tape is 3" wide continuous strip labeled "Caution, Fiber Optic Line Buried Below." Available in detectable and non-detectable varieties.

PART #	DESCRIPTION	PRICE
551165	3" x 1000' Non-Detectable Terra Tape	$9.75
F1-6508	3" x 1000' Detectable Tape (metallic material)	21.50

REFLECTIVE NUMBER AND LETTER KITS

Reflective Number and Letter Kits are an excellent solution for marking and labeling your field assets. Because these numbers and letters are highly reflective, you can easily see them in all weather and at all times of day. Laminated for extra protection against UV rays, abrasion and chemicals, these durable 3M Scotchlite™ reflective labels are available in convenient kits that contain 25 each A-Z, 25 each 0-9, 25 each dash and blank and a handy storage case. Stock color is Black character on orange reflective background. Other colors are available.

PART #	DESCRIPTION	PRICE
F1-RKIT	Reflective Labeling Kit	$125.00

SOILMARKERS

Clearly identify vulnerable underground assets with durable ground-level markers. Made of long-lasting and damage-resistant plastic, soil markers are prefect for urban, high-traffic, or other locations where posts and signs can't be used. These rugged markers can be walked on, driven over, or mowed over. 7" disk with 13" stake included.

PART #	DESCRIPTION	PRICE
SOILMARKER	7" disk with 13" Stake	$11.75
SOILMARKERSS	7" disk with 13" Stainless Steel Stake	31.00

(A) (B) (C) (D) (E) (F) (G)

Custom Sizes & Prints Available

F1-CC

551165

F1-RKIT

NEW

Rhino 5200

DYMO HAND HELD ELECTRONIC LABELERS

Dymo RhinoPro 5000 and 6000 heavy duty labeling tool provides a portable printer that's easy to use and affordable. Exclusive "Hot Key" functionality puts the power of wire & cable wrapping, patch panel, terminal block, fixed length, serialization and vertical printing at your fingertips. Polyester permanent tape is 18 ft. and nylon tape 11.5 ft. in length. Dimensions: 4.5"W x 2.7" D x 8.3" H, Weight: 1.14 lbs. Warranty: Limited One Year.

PART #	DESCRIPTION	PRICE
1734520	Rhino 6000 Label Printer Kit with Hard Case	$315.00
1734519	Rhino 6000 Label Printer Kit - No Carry Case	226.00
1755749	Rhino 5200 Label Printer Kit - No Carry Case	169.00
1756589	Rhino 5200 Label Printer Kit - with Hard Case	219.00
1759050	Rhino 6000 Label Printer w/Irwin Tool Kit	226.00
DY18484	3/4" White Polyester Permanent Tape. Best on Smooth, Flat or Textured Surface	17.99
DY18488	1/2" White Flexible Nylon Tape. Best on Wire, Cable and All Surfaces	17.99
DY18489	3/4" White Flexible Nylon Tape. Best on Wire, Cable and All Surfaces	17.99

CABLE MARKER TAPE DISPENSER

A dispenser holding 10 rolls of tape, numbered 0-9, gives you the ability to tag patch cables in your fiber optic system for easy identification. The 0-9 rolls of tape may be purchased under a separate part number. Replace "X" w/desired number 0-9 for replacements.

PART #	DESCRIPTION	PRICE
KMM-09	Wire Marker Dispenser & Tape 0-9	$16.85
PM-D09	Tape Roll 0-9	15.00
PMD-X	Replacement Reel	1.65

KMM-09

Connector & Cable Clamps

CONNECTOR & CABLE CLAMPS

The ability to secure a connector or cable to a desired location is possible with this adhesive backed clamp. Re-enterable and adjustable up to 5/8".

PART #	DESCRIPTION	PRICE
F1-6209	Connector & Cable Clamps	40¢

Velcro® Roll

75' Velcro® ROLL

This Velcro dispenses just like a tape roll and can be cut to the desired length. The center core of the roll has a male/female Velcro patch attached, which enables the roll to be affixed to any ladder or steel surface for convenient dispensing.

PART #	DESCRIPTION	PRICE
F1-VROLL	75' Velcro® Roll ¾" Black w/ Center Core	$23.95

Expandable Fiber Bracket
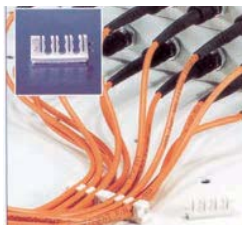
EXPANDABLE FIBER BRACKET

Designed to hold up to six 3.0mm fiber optic cables, this bracket provides expansion capabilities to fiber optic systems. Made from flame retardant nylon, cables snap into grooves without damaging the fiber.

PART #	DESCRIPTION	PRICE
F1-9124	Expandable Fiber Bracket (Package of 10)	$2.70

NEW

TL-1500   TL-1375   TL-950   KL-950   KL-750   KL-600   KL-450

TWIST & KURLY LOCKS

Organize and tame your cables or wires with the Twist Lock or the Kurly Lock by Richco. Securely fasten or remove your cords with one quick and easy twist of the wrist. One twist has up to 20 lbs of tensile strength, for safe and secure fastening. Manufactured of Nylon 6.6 and available in a natural color, these twist locks will remain reusable for many years to come. UL Approved Number E71558 and RoHS compliant.

PART #	DESCRIPTION	PRICE
TL-1500	Twist Lock,Natural,1-9/16" Max - 50 per bag	$5.80
TL-1375	Twist Lock,Natural,1-7/16" Max - 50 per bag	4.75
TL-950	Twist Lock,Natural,1" Max - 50 per bag	3.35
KL-950	Kurly Lock,Natural,.90"-1.0" Hold - 50 per bag	3.85
KL-750	Kurly Lock,Natural,.70"-.80" Hold - 50 per bag	3.00
KL-600	Kurly Lock,Natural,.55"-.65" Hold - 50 per bag	2.80
KL-450	Kurly Lock,Natural,.40"-.50" Hold - 50 per bag	2.30

NEW

1,000s OF APPLICATIONS!
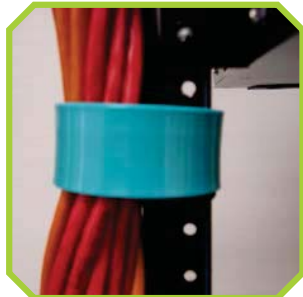
• Keep racks neat and clean

Large teeth allow
for secure hold

Mounting Hole
for wall applications

Latching mechanism
allows for reuse

Padded surfaces prevent
over tightening &
minimizes attenuation
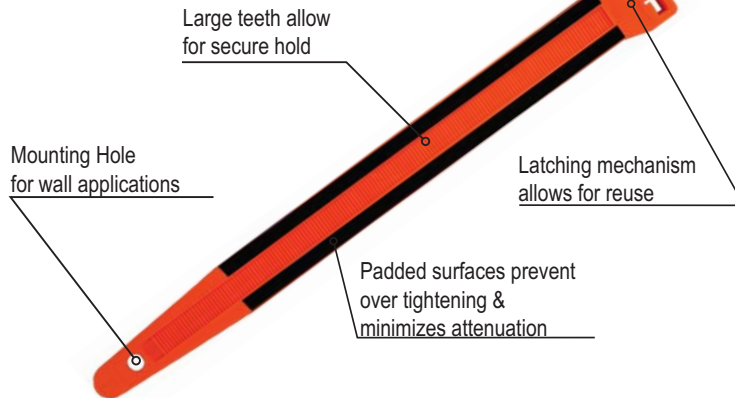
• Can mount to wall for easy
placement

It's easy for installers to over-cinch thin zip ties, resulting in macrobends that attenuate fiber optic cables. With copper cables, the weight of cables pressing against thin ties can damage or deform them enough to create crosstalk issues. To solve these problems, FIS has created the "Universal Cable Strap," the widest cable tie designed for communications cable. A padded version is available for fiber optic cable.

FIS Tie Wraps are 1" wide and 12" long and are available with or without protective foam padding. Sold in convenient packs of 6, 50, 100 pieces. Replace "X" with color of your choice: AQ=Aqua, BK=Black, BL=Blue, GR=Green, OR=Orange, YE=Yellow

FIS FIBER OPTIC TIE WRAPS

PART #	DESCRIPTION	PRICE
FOTW-X-6	Tie Wrap with Foam (Pack of 6)	$9.95
FOTW-X-50	Tie Wrap with Foam (Pack of 50)	72.50
FOTW-X-100	Tie Wrap with Foam (Pack of 100)	125.00

FIS BASIC TIE WRAPS

PART #	DESCRIPTION	PRICE
BTW-X-6	Basic Tie Wrap (Pack of 6)	$5.40
BTW-X-50	Basic Tie Wrap (Pack of 50)	39.50
BTW-X-100	Basic Tie Wrap (Pack of 100)	67.50

TIE WRAPS

Available from FIS are two sizes of tie wraps. The 4" long by 1/8" wide wrap is excellent for securing simplex or duplex cable. The 7" long by 3/16" wide wrap is designed to handle wrap diameters up to 1-1/4".

PART #	DESCRIPTION	PRICE
T18S	4" Tie Wraps (100 pk)	$2.25
T50S	7" Tie Wraps (100 pk)	3.25

ONE-WRAP® TIE WRAPS

Protect your Fiber Optic and Category 5 cable from over cinching with velcro tie wraps. These low-cost wraps are reusable and are available in red and black. Now provided with cutout for screw mount support.

PART #	DESCRIPTION	PRICE
CT733	Red Tie Wrap 1"x 8" (75 pk)	$25.75
CT255	Black Tie Wrap 1"x 8" (75 pk)	26.95
CT-3105	Black Tie Wrap 3/4" x 5" (25 pk)	9.95
CT-3108	Black Tie Wrap 1"x 8" (25 pk)	9.95
CT-3012	Black Tie Wrap 1"x 12" (25 pk)	12.00

CABLE CLAMPS

Use the new Cable Clamp to organize copper or fiber cords and bulk cable. These clamps are available in 3 sizes: small (holding up to 1" in diameter), medium (up to 2") and large (up to 3").

CCS

PART #	DESCRIPTION	PRICE
CCS-0601	Small Cable Clamp (color red)	85¢
CCS-0102	Medium Cable Clamp (color white)	$1.20
CCS-0201	Large Cable Clamp (color blue)	1.60

FIBER OPTIC SPLICE TRAILER

The Splice Trailer protects the splicing operation from weather and debris, while providing the technician with convenience and comfort in the field. The trailer features a 6'6" interior height with insulated walls and ceilings. The entrance door is located at the rear of the trailer to provide maximum workspace in the interior. Two fiber optic cable doors (one in the back and one on the curb side) enable technicians to work on outdoor lines in an inside environment. Features: New Linoleum floor, rear step, heat and air conditioning units, 25 aluminum cabinets to store items, electric brakes, fluorescent lighting, a generator with an inside fuel gauge for added convenience and a full length roadside countertop. The ADJ front pintle hitch easily connects to the pulling vehicle, and more. Call your sales associate for additional specifications. FIS will arrange transportation anywhere in the world. Delivery not included in price.
Outside Dimensions (16'10" L x 9' 1" W x 9' 7" H) (Length includes hitch.)

**Visit www.fiberinstrumentsales.com
For More Details**

PART #	DESCRIPTION	PRICE
F1-9798NN	Fiber Splice Trailer	$23,625

FIS PORTABLE TABLE

These tables are perfect for splicing and terminating fiber optic cable. Tables weigh approximately 15-25lbs. The Work Table Kit is sold separately and includes a lamp (110VAC), magnifier, universal clamp, and carrying case.

F1-CT36

PART #	DESCRIPTION	PRICE
F1-CT36	Work Table (22"x28")	$270.00
F1-CT53	Work Table (22"x44")	387.00
F1-CT70	Work Table (22"x58")	447.00
FIS-AK	Work Table Kit (see description above)	240.00

FIS SPLICE TENTS

Splice tents for outside field applications are made of tough urethane coated polyester fabric. FIS offers the standard splice tents and the new Space Saver splice tents. Space Savers have approximately 25% shorter folded length for storage and can be set over a cable or pipe.

F1-97976GF

PART #	DESCRIPTION	PRICE
F1-97976GF	FIS Tent (6'L x 6'W x 6' 8"H) w/floor	$672.00
F1-97978GF	FIS Tent (8'L x 8'W x 7' 8"H) w/floor	930.00
F1-97976GS	FIS Space Saver Tent (6'L x 6'W x 6' 8"H) without Floor	525.00
F1-97978GS	FIS Space Saver Tent (8'L x 8'W x 7' 8"H) without Floor	730.00
F1-979710GS	FIS Space Saver Tent (10'L x 8'W x 8' 4"H) without Floor	932.00

TEMPO TRACKER II

501

With its inductive signal application, the Tracker II can be used on active or dead systems. Now you can trace the path and determine the depth of wires and metallic pipes without having to deactivate the systems. High frequency transmitter provides range up to 4000 feet (1219 m) and depths to 7 ft. (2 m). The transmitter offers three methods of connection: direct, inductive coupler, or inductive antenna.

PART #	DESCRIPTION	PRICE
501	TRACKER II	$725.00

Marker Disks Available

TEMPO MARKER MATE

Marker-Mate™ Electronic Marker Locator is designed to locate all brands of buried, electronic markers, including the patented Tempo Omni Marker™, and Uni Marker™. This locator sets an industry standard with the capability of detecting all seven application-based electronic marker types simultaneously (power, water, sanitary, telephone, gas, cable TV, non-potable water.) Marker disks available.

EML100

PART #	DESCRIPTION	PRICE
EML100	Marker Mate	$740.00

ENCLOSURES

FIS SAFETY CAPS

FIS has created a solution to the problem of laser light emitted from fiber optic bulkhead adapters. Our new Laser Safety Caps come with a warning symbol on each to visually alert people to potentially harmful exposure to laser light. Each cap has a built-in metal tile to stop laser light up to +18dBm. They are available for SC, LC, ST and FC style. **Replace X with the color desired: BLK=Black, BL=Blue, GR=Green, BE=Beige AQ=Aqua.**

PART #	DESCRIPTION
F1BLSCST-X25	ST Bulkhead Laser Safety Cap 25-Pack
F1BLSCSC-X25	SC Bulkhead Laser Safety Cap 25-Pack
F1BLSCFC-X25	FC Bulkhead Laser Safety Cap 25-Pack
F1BLSCLC-X25	LC Bulkhead Laser Safety Cap 25-Pack

$19.95/25 pack

Coyote© DTC

- Closure specifically designed for Round or Flat Drop Cable
- Includes four cable entry ports and grommets for drop cable
- Max Splice Capacity - 16 single fusion / (3) 12 ribbon fibers
- In-Line or Butt application
- Compact Size: 9.1" x 7.6" x 1.7"
- Re-enterable and Re-usable
- Designed for direct buried, below grade, pole/wall mount or aerial applications

Coyote© LLC
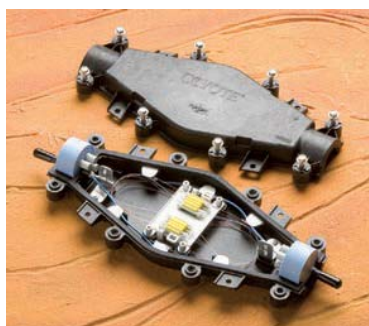
- Compact Low Count Closure
- Closure specifically designed for Round or Flat Drop Cable
- Max Splice Capacity - 24 single fusion / 72 ribbon fibers
- In-Line or Butt application
- Compact Size: 17" x 7" x 2.5"
- Utilizes LITE-GRIP© splice platform
- Easy re-entry and re-usable
- Designed for direct buried, below grade, pole/wall mount or aerial applications

Coyote© In-Line Runt

- In-Line or Butt application
- Max Splice Capacity* - 80 single fusion / 288 ribbon fibers
- Capacity for two LITE-GRIP short trays
- Compact Size: 10" x 3.5" x 17.5"
- Re-enterable and Re-usable - No special tools needed
- Simple-to-use grommet sealing system with four grommet ports

PART #	DESCRIPTION	INCLUDED COMPONENTS		PRICE
		SPLICE TRAYS	GROMETS	
COYDTC-001	COYOTE® DTC	(2) single fiber & 1 Ribbon LiteGrip Splice Blocks	(4) Round/Flate Drop	$34.00
COYLCCF001	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(1) 7-hole, (1) 12-hole	41.70
COYLCCF002	LCC for Single Fusion Splices w/Strength member Bobbin Kit	(3) single fiber LiteGrip Splice Blocks	(1) 7-hole, (1) 12-hole	46.30
COYLCCF004	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(2) 7-hole	41.70
COYLCCF005	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(2) 2-hole	41.70
COYLCCF006	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(2) 4-hole	41.70
8006951	In-Line Runt Closure (10" x 3.5" x 17.5") holds 2 splice trays, up to 24 single fiber splices		(4) 2-Hole	127.85

Runt 8006671

8006560

This family of enclosures offers a wide variety of applications from aerial to direct burial installations. Coyote Classic Enclosure styles utilize the Tape and C-Cement sealing technology which experienced installers of copper and fiber optics are familiar with. With splice count options from 24-288 splices, the Coyote Classic line offers another set of options for a complete PLP offering.

PREFORMED LINE PRODUCTS – RUNT & PUP CLOSURES
(Splice Trays NOT Included)

PART #	DESCRIPTION	PRICE
8006671	Runt Closure (8.5"x 3" x 14.75"), holds 2 splice trays, up to 24 single fiber splices	$127.85
8006794	Expanded Runt (8.5" x 4.25"x 14.75") holds 4 splice trays, up to 48 single fiber splices	170.25
8006916	Runt w/ Cross Connect (Adapter Panels Sold Separately - call FIS for part numbers)	278.45
8006621	PUP Closure (6" x 17") Unitube Version, holds up to 4 splice trays/48 single fiber splices	189.15
8006622	PUP Closure (6" x 17") Buffer Tube Version, holds up to 4 splice trays/48 single fiber splices	189.15

PREFORMED LINE PRODUCTS – COYOTE CLOSURES
(Splice Trays NOT Included)

PART #	DESCRIPTION	PRICE
8006560	Coyote (6.5" x 22") w/buffer tube storage, 6-port endplate, up to 4 trays/144 fibers	$302.90
8006540	Coyote (6.5 x 22") for Unitube cable, 6-port endplate, up to 4 trays/144 fibers	302.90
8006561	Coyote (8.5" x 22") w/buffer tube storage, 6-port endplate, up to 8 trays/288 fibers	550.00
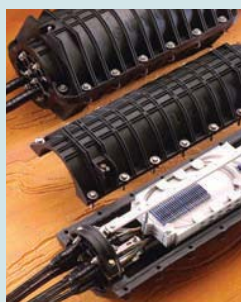
Enclosures

LINE PRODUCTS The connection you can count on.

COY1-001

Grommet Cable Entry for
COYOTE Dome Enclosures

COYOTE Dome
6.5" x 22"

PLP Ground Level
Enclosure

INCLUDED COMPONENTS

PART #	DESCRIPTION	SPLICE TRAYS	GROMMETS	PRICE
COY1-001	Coyote One Closure, 16 x 10 x 5.7, 3-section endplate, holds 2 Lite-Grip or 5 low profile short splice trays		8003663 8003676	$149.50
8006877	Dome (6.5" x 22") 4-section endplate, holds 3 Lite-Grip or 6 low profile long splice trays		8003701	288.50
8006944	Dome (6.5" x 17") 4-section endplate, holds 3 Lite-Grip or 6 low profile short splice trays		8003701	180.15
F1-6944RB	6.5" x 17" COYOTE® Dome for Ribbon Fiber	(1) LGSTR144 for 12 ribbons	8003701	221.00
F1-6877S	6.5" x 22" COYOTE® Dome for Buffer Tube (Loose Tube)	(1) LGSTS40 for 40 fibers	8003701	356.45
80061055	9.5 x 28" Dome Loose 7-section endplate, holds 7 Lite-Grip or 13 low profile long splice trays		8003692 8003693	390.00
800013691	Dome 9.5 x 19", 7-section endplate, holds 6 Lite-Grip or 12 low profile long splice trays		8003692 8003693	329.10
COYGLC-F1B-000	COYOTE GLC Universal Kit w/ Base (Buffer Tube/Ribbon - up to 2 trays)			360.00
COYGLC-F2B-000	COYOTE GLC High Capacity Kit w/ Base (Buffer Tube/Ribbon - up to 6 trays)			337.50
COYGLC-F3B-000	COYOTE GLC Cross Connect Kit w/ Base (Unloaded)			382.00

Grommets for New Breed of COYOTE Closures

PRICE	Part Number										
	8003701	8003691	8003692	8003693	8003694	8003663	8003664	8003665	8003676	8003677	8003796
1-9 $11.25 Each 10+ $10.50 Each											
Hole Range (in)	.42-.60 in. .60-.85 in.	.42-.60 in.	.60-.85 in.	.85-1.0 in.	1.0-1.25 in.	.42-.60 in.	.30-.43 in.	.125-.25 in. and Flat Drop	.42-.6 in. .125-.25 in. and Flat Drop	.125-.25 in. and Flat Drop	.125-.25 in. Flat Drop Only

PREFORMED LINE PRODUCTS – SPLICE TRAYS

PART #	DESCRIPTION	PRICE
LGSTS16	Lite Grip Splice Tray Kit, Short Tray, includes 2 splice blocks to support up to 16 Single Fusion Splices	$19.30
LGSTS40	Lite Grip Splice Tray Kit, Long Tray, includes 5 splice blocks to support up to 40 Single Fusion Splices	25.40
80806033	12-count splice tray for Runt, PUP & Coyote Dome Closures	22.50
80807701	12-Count Low Profile Short Tray with Splice Block	22.50
8001127	36 Count Low Profile Long Tray with Splice Block	41.10
80805110	36-count splice long tray for Coyote Closure (8006560/8006540/8006561/8006541)	34.35
80805514	36-count splice tray for Coyote Dome (8006878/8006877)	41.10

80809958   **80808945**

PREFORMED LINE PRODUCTS – OSP ACCESSORIES

PART #	DESCRIPTION	PRICE
8003832	Aerial Mounting Bracket for LCC	$7.50
8003678	Aerial hanger bracket for Dome Closure	25.75
8003325	Adjustable aerial hanger bracket for PUP and Coyote Closures	24.65
8003467	Aerial hanger bracket for Runt Closure	24.65
8003571	Universal Mounting Bracket for Runt Closure	22.10
80805105	Three section endplate, 6 cable ports for Coyote(3) @ 3/4" (3)@ 7/8"	80.65
80805739	Three section endplate, 4 cable ports for Coyote(2) @ 1" (2) @ 1.25"	89.00
80805260	Blank endplate for Coyote Closure	34.55
80802567	LOCK-TAPE sealant 12ft roll	5.20
80802377	C-cement, 4oz can (Domestic ground shipment only)	4.80
8003663	2-entry grommet for .42-.60" port for Corning SST Cable	10.50
8003609	3-entry grommet for 7/8" port for Corning SST Cable	10.90
8003610	4-entry grommet for 1" port for Corning SST Cable	10.90

LGSTS40   **80805514**   **8085110**
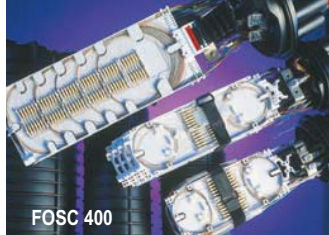
FOSC 450

RAYCHEM FOSC 450 FIBER OPTIC GEL CLOSURE
• Available in Three Sizes 8", 10" or 11.5" Diameter
• Splice Trays are Hinged for Direct Access to any Splice without Disturbing Other Trays
• Can be used in Aerial and Burial Conditions
• Single-Ended Design Butt Closure with Gel Sealing Technology - No Heat Shrink
• Gel Seal Automatically Adjusts to Cable Size and Shape without Tools
• Splice Trays Not Included

PART #	DESCRIPTION	PRICE
FOSC450A42NT0A1V	Tyco "A" Closure, 4 round ports, holds up to 48 splices (8"W x 19"L)	$182.75
FOSC450B66NT0B3V	Tyco "B" Closure, 6 round ports, holds up to 144 splices (10"W x 24"L)	281.05
FOSC450D66NT0D3V	Tyco "D" Closure, 6 round ports, holds up to 768 splices (11.5"W x 30"L)	439.60

RAYCHEM FOSC 400 FIBER OPTIC SPLICE CLOSURE
• Smallest of Dome Style Closures Available in Three Sizes
• Combine Proven Fiber Management Hardware with Reliable Sealing System
• Splice Trays Not Included

FOSC 400

PART #	DESCRIPTION	PRICE
FOSC400A4NT0NGV	Tyco "A" Closure, 4 round ports, holds up to 48 splices (8"W x 19.5"L)	$112.45
FOSC400B4NT0NGV	Tyco "B" Closure, 4 round ports, holds up to 96 splices (8"W x 25"L)	197.75
FOSC400D5NT0NGV	Tyco "D" Closure, 5 round ports, holds up to 576 splices (11.5"W x 31"L)	380.65
FOSCACCAERIALCLAMPS	Aerial Bracket for FOSC400	30.10

GATOR 12 FIBER SPLICE CLOSURE
The Gator splice closure is a small butt splice closure primarily designed for splicing two loose tube "flat drop" style cables of 1 to 12 fibers in above ground, below grade, and direct buried applications. Accommodates up to 12 single fibers, 12 ribbonized fibers, or one 12 fiber ribbon. Two mounting tabs are integrated into the closure base to allow easy mounting. Gel-Sealing Technology. Re-enterable but not re-usable.

PART #	DESCRIPTION	PRICE
FDSCGATOR12FT	Raychem Gator 12F Splice Closure (7.5" x 5.8" x 1.2")	$52.25

FDSCGATOR12FT

RAYCHEM FOSC 500AA SLIM IN-LINE CLOSURE
• 2 Cable Ports are Provided at Each Side of the Closure
• Butt or Inline Splice Closure with Gel Sealing Technology
• Holds up to 24 Single Fiber Splices
• Compatible with Most Existing Cable Construction (loose tube, central core)
• Splice Trays Included

PART #	DESCRIPTION	PRICE
FOSC500AAL24LTGV	Raychem Closure, Holds 24 Single Fiber Splices, for Loose Tube Cable w/ Tray Included	$161.40

FOSC 500AA

Raychem Fibrboss Closures Available! Contact Your FIS Sales Associate For Configuration & Pricing Information!

FOSC-ACC-A-12　　**FOSC-ACC-A-24**　　**FOSC-ACC-B-24**　　**FOSC-ACC-D-36**　　**FOSC-ACC-D-72**

RAYCHEM ACCESSORIES
Raychem splice trays are manufactured for specific style closures. Be sure to match the type of closure to correct splice tray. Trays range from 12 count to 72 count single fiber splices.

PART #	DESCRIPTION	PRICE
FOSC-ACC-A-12	Raychem Splice Tray for "A" Closure, 12 Count Capacity	$13.50
FOSC-ACC-A-24	Raychem Splice Tray for "A" Closure, 24 Count Capacity	16.20
FOSC-ACC-B-12	Raychem Splice Tray for "B" Closure, 12 Count Capacity	16.20
FOSC-ACC-B-24	Raychem Splice Tray for "B" Closure, 24 Count Capacity	18.85
FOSC-ACC-D-36	Raychem Splice Tray for "D" Closure, 36 Count Capacity	28.30
FOSC-ACC-D-72	Raychem Splice Tray for "D" Closure, 72 Count Capacity	33.70
FOSC-ACC-CABLESEAL1NT	Raychem Cable Sealing Kit for 1 round port cable	22.60
FOSC-ACC-CTRAY24	Raychem Splice Tray for "C" Closure 24 Count Capacity	22.40
FOSC-ACCDBASKETALL	Raychem Fiber Basket Holder	29.10
SMOUV-112001	Raychem 60mm Splice Sleeve (100pk)	40.00
SMOUV-112002	Raychem 45mm Splice Sleeve (100pk)	40.00

Enclosures

FIS can supply all of your 3M™ enclosure needs. Call your FIS representative for 3M™ enclosures not listed on this page.

2178XSBEGOT

2178 Series

2178-LS

3M 2178 SERIES CLOSURES (SPLICE TRAYS NOT INCLUDED)

The 3M™ Fiber Optic Splice Closure 2178 family provides excellent system flexibility for both existing and new fiber deployments. Products in the 2178 family are industry-proven and comply with appropriate UL and Telcordia standards. The flexible design and common accessories allow you to maintain a reduced inventory, saving time and money. The 2178 family accommodates most splicing configurations (inline or butt). All of the closures in the 2178 family feature tough, rigid non-filled closures tested under harsh, real-world situations to stand up to severe conditions of moisture, vibration and temperature extremes.

PART #	DESCRIPTION	PRICE
2178-XSBEGOT	Compact Splice Case (14.5"L x 10"W x 4.6"H), 3 cable ports, butt splice only, use 2532 splice tray	$132.00
2178-S	Small Splice Case (21.9"L x 8.5"W x 4.7"H), up to 96 splices, use 2522/2523 splice trays	235.00
2178-LS	Standard Splice Case (21.9"L x 8.5"W x 8" H), up to 192 splices, use 2522/2523/2524FT trays	273.00
2178LL	Large Splice Case (21.9"L x 8.5"W x 11.3" H), up to 312 splices, use 2522/2523/2524FT trays	307.00
2178XL	X-Large Splice Case (28.9"L x 13.1"W x 10.5" H), up to 768 Fusion 1,152 Mass splices (2-2527 trays included)	758.00

3M FIBER OPTIC SLIC™ AERIAL CLOSURES (SPLICE TRAYS NOT INCLUDED)

The free-breathing, weather-resistant, single-piece aerial closure can be very easily installed for new construction or maintenance applications. The single-piece construction permits complete splice access after placement without the removal of the closure from the cable. These free-breathing closures are designed for strand-mount in-line, butt or taut sheath single or ribbon fiber applications. The maximum splice capacity of the 533 closure is 144 single and 432 mass fusion splices. 3M™ SLiC™ Fiber Aerial Closures are tested to Bellcore requirements for free-breathing closures (FBCs) and Rural Development (RUS) Listed.

SLiC Aerial Closures

PART #	DESCRIPTION	PRICE
SLFC-533-SP-1A	533 Free Breathing SLiC™ (Mid/Endspan) Dimensions: 33"Lx 5"ID 72 single fusion 2527 (24ct tray)	$153.00
SLFC-733-SP-1A	733 Free Breathing SLiC™ (Mid/Endspan) Dimensions: 33"L x 7"ID 144 single fusion 2527 (24ct tray)	229.00

3M™ FIBER OPTIC SPLICE TRAYS & OSP ACCESSORIES

PART #	DESCRIPTION	PRICE
2532	Splice tray for 2178XSB, stackable/entry-exit both ends, up to 24 single fusion splices	$16.80
2524FT	Fusion splice organizer tray, holds 24 single fusion splices (splice inserts included)	39.99
2520-100FT	Fiber tube transport tubing, protects fibers going to trays (1ft length)	1.35/ft
2522	Fiber splice organizer tray – small (holds 2 chips/24 fiber) (11.5"L x 4"W x .75"H)	22.90
2523	Fiber splice organizer tray – large (holds 4 chips/48 fiber) (15"L x 4"W x .75"H)	25.95
2521F	Single fusion splice inserts (2 pack) -Fit 2522,2523,2527 trays (12 splices per insert)	8.65
2521FL	Fibrlok splice inserts (2 pack) -Fit 2522,2523,2527 trays (6 splices per insert)	8.65
2521RF	Ribbon splice inserts (2 pack) – Fit 2522,2523,2527 trays (4 splices per insert)	8.65
2181LS	Cable addition kit for 2178LS/LL cases, allows for 3 additional trays/4 cable ports.	96.00
2178LS/GSKT	Gasket for 2178LS series splice cases	49.75
2527	Fiber Optic Splice Tray (12 ct) for SLiC™ closures	28.00
2183UHB	Universal Hanger Bracket	46.85
AC-HB4	Aerial Offset Hanger Bracket for SLiC™, 4.0", pair	22.40
2172	Strength member clamp for fiber optic cable	4.60
4414	3M Cable Cleaning Kit	27.50
4460DFO	3M Scotchlok Shield Bond Connector Assembly	3.50
25T-BBE6	Bond Braid w/Eyelets 6" (1/2"x 25')	69.75

2524-FT

2522

FIBER OPTIC SNO SHOES

The plastic Sno Shoe is used to store additional lengths of fiber along the strand for later use. Sno Shoe is a durable and cost effective tool for storing fiber optic cable in the air. Adjustable Sno Shoes can be used aerially with standard tap brackets or the optional ADSS brackets. It can be mounted directly to the pole, or even in a manhole – anywhere you would want to store all of the slack at one location. Sno Shoes sold per pair.

PART #	DESCRIPTION	PRICE
2110-SSPTB	10" Plastic Sno Shoe w/Hardware (one pair)	$55.00
2116-SSPTB	16" Plastic Sno Shoe w/Hardware (one pair)	70.00
2116-SAPTB	16" Plastic Adjustable Sno Shoe w/Hardware (one pair)	129.95
2424-SAPTB	24" Plastic Adjustable Sno Shoe w/Hardware (one pair)	230.00
2116-SSPSS	16" Plastic Sno Shoe w/ADSS Hardware (one pair)	45.00
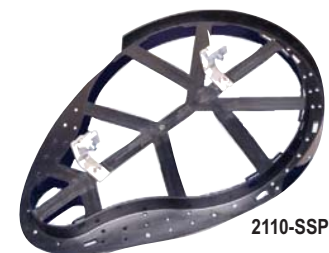
2110-SSPTB
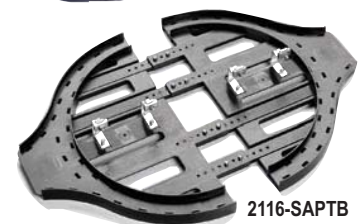
2116-SAPTB

Enclosures

F1-OSPDBC24

FIBER INSTRUMENT SALES, INC.

F1-OSPDBC24

FIS FIBER OPTIC SPLICE CLOSURE

This FIS Outside Plant Direct Burial Closure offers the perfect choice for low fiber count distribution applications involving butt and inline installations. The compact size and rugged design allow the closure to be applied in below grade, aerial and buried installations. Dimensions: 21" L x 8" x 4" Weight: 9lbs.

• 4 Entry Ports • Accepts cables from 10mm - 22mm diameter • Direct Burial or Aerial applications • Can be configurated for butt or in-line applications • Integrated splice trays included • Permanent waterproof sealing requires no re-entry kit • IP rating:66 (Equal to NEMA 4 and 4X)

PART #	DESCRIPTION	PRICE
F1-OSPDBC24	FIS Fiber Optic Splice Closure - 24 Fiber	$99.95
F1-OSPDBC48	FIS Fiber Optic Splice Closure - 48 Fiber	119.95
F1-OSPTRAY	Splice Tray 12 but expandable to 24 Fiber For F1-OSPDBC-XX Closures	9.95
	12 count, 24 count (Double Stacked)	

F1-FLEXSPLC

FIS FLEXIBLE CABLE SPLICE PROTECTOR

The FIS Flexible Cable Splice Protector is an ideal solution for protecting fiber optic splices in challenging field conditions. This rugged, easy-to-install splice protector accommodates up to 12 splices with mini or micro protection sleeves, protecting them from moisture, vibration, shock and other adverse environmental conditions.

• Use for singlemode or multimode fibers • Accommodates 25-60mm long splice sleeves
• 5" Minimum bend radius (Flexible center portion only) • Dimensions: 13.75" (L) x 1.35" (W)

PART #	DESCRIPTION	PRICE
F1-FLEXSPLC	FIS Flexible Cable Splice Protector	$65.00

910

1324

Oldcastle

1730

2436-24

OLDCASTLE PRECAST ENCLOSURE SOLUTIONS

These Carson high density polyethylene plastic (HDPE) and Polymer Concrete grade level enclosures are easy to install and provide strong, durable, chemical and water resistant performance. Light Duty: Greenbelt/Pedestrian Rated. Medium Duty: Incidental, non-deliberate 4 tire, car & small truck traffic.

PART #	DESCRIPTION	WEIGHT	PRICE
910-10	Light Duty 9" diameter top with 10" diameter Bottom, HDPE base and Top cover	4 lbs.	$23.00
1324-15	Light Duty 13" x 24" x 15" HDPE base and Top cover	23 lbs.	135.00
2436-24HPC	Light Duty 24" x 36" x 24" HDPE base and Top cover	24 lbs.	969.00
1520-18HLPC	Medium Duty 15" x 20" x 18" HDPE Base and Polymer Concrete cover	30 lbs.	121.00
1730-24	Medium Duty 17" x 30" x 24" HDPE Base and Polymer Concrete cover	75 lbs.	328.00
2436-36HP	Medium Duty 24" x 36" x 36" HDPE Base and Polymer Concrete cover	96 lbs.	943.00
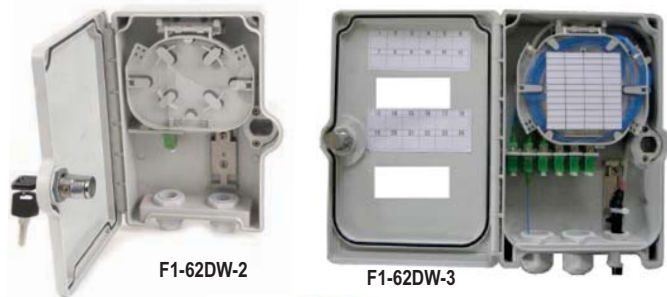
F1-62DW-2

F1-62DW-3

F1-530

F1-502H

fis FIBER INSTRUMENT SALES, INC.

LEVITON
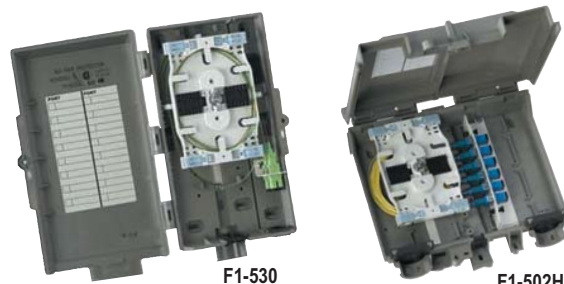
FIS FIBER OPTIC NID TERMINATION BOX

FIS Wall Mount Fiber Optic NID Terminal Box is designed to provide protection for fiber optic connectors and splices in indoor or outdoor environments. The enclosure has a built in, swing-out mini splice tray plus a bulkhead panel with SC cutouts ports. 2 or 3 Cable access ports with built in weather-tight grommets allow for easy cable installation. Adapters not included.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-62DW-2	FIS NID Termination Box (For 2 SC or 4 LC Connections) 2 Entry Ports	8.2" x 6" x 2"	$39.95
F1-62DW-3	FIS NID Termination Box (For 12 SC or up to 24 LC Connections) 3 Entry Ports	10.2" x 7" x 2"	49.95

LEVITON FIBER OPTIC NETWORK INTERFACE DEVICE (NID)

The rugged and secure NID provides protection from the elements and is offered in three variations. Constructed of a thermoplastic composite each NID safeguards fiber terminations, is wall mountable and designed with ease of maintenance for installers. Accommodates one 12-fiber splice tray. Specify connector/adapter styles of SC/APC or SC/UPC for terminations. (Must be Leviton FD or FIS adapter panel series 6-pack)

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-530S	NID houses 12 splices and/or 2 SC/UPC Adapters includes tray & adapters	10.22" x 5.64" W x 2.73"	$89.00
F1-530A	NID houses 12 splices and/or 2 SC/APC Adapters includes tray & adapters	10.22" x 5.64" x W 2.73"	85.00
F1-502-H	NID houses 12 splices and/or (1) FD series adapter panel (not incl.)	8.54" x 10" x 2.88"	64.25
T5PLS900	12 Count Splice Tray with (2) Six Position Heat Shrink Splice Holders		24.80

CCS ENVIRONMENTAL DISTRIBUTION CENTER (EDC)

Corning Cable Systems EDC product family continues to set the standard for the future of interconnect hardware. These units are designed for the protection of fiber optic connections and splices in indoor or outdoor environments; the EDC is ideal for industrial, marine, security, or traffic control applications. The EDC series accepts CCH panels and splice trays. No entry holes provided on EDC series cabinets.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
EDC-02PNH	Accepts 2 CCH Adapter Panels	12.5" x 10.5" x 6.25"	$300.50
EDC-06PNH	Accepts 6 CCH Adapter Panels	16.5" x 14.5" x 8.3"	451.70
EDC-12PNH	Accepts 12 CCH Adapter Panels	18.6" x 16.6" x 10.3"	566.00
EDC-2N4-KIT	Two NEMA 4 Rated Conduit Fittings for Two-Inch Conduit		79.50
EDC-2EC-KIT	Two Non-Rated Conduit Fittings for Two-Inch Conduit		25.95
EDC-2WT-KIT	Two Watertight Compression Fittings (not intended to mate with conduit)		39.95
HDWR-GRND-KIT	Hardware Grounding Kit: Includes Two Ground Wires, Sheath Ground Clip and Bus		31.95

CORNING
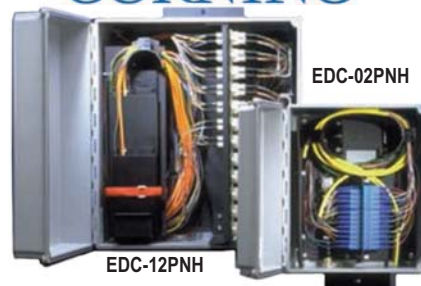
EDC-02PNH

EDC-12PNH

PLP COYOTE WALL MOUNT MULTI-PURPOSE CLOSURE (MPC)

A versitile high performance demarcation closure for indoor or outdoor applications. With its unique interior grid pattern the MPC allows for custom configuration and mounting of a wide aray of compnents. NEMA 4 rated and supplied with knockouts for up to 8 entry points. Contact an FIS sales representative for custom configurations.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
COYMPC-000	COYOTE Standard MPC (Empty) 16"L x 14" W x 4" D	16" x 14" x 4"	$91.60
COYMPC-D000	COYOTE Deep MPC (Empty) 16"L x 14" W x 8" D	16" x 14" x 8"	135.30
80808618	Stepped Grommet Kit, Bag of 4 (.07" - 1.0")		12.15
80808960	Bulkhead Mounting Bracket for Standard MPC (Holds 2 plates)		14.95
8003814	Splice Platform for Single Fusion splices		11.00

PLP

Standard MCP

MULTILINK OPTICAL TERMINATION ENCLOSURE (OTE)

The Multilink OTE is designed to support the splicing and termination of optical drops and traditional splicing in aerial, pole or wall mount applications. The cover is designed with a latching mechanism to prevent inadvertent closing during installation activities. The OTE is fully kitted to reduce ordering of numerous parts or kits. Enclosure utilizes an easy to assemble cable sealing and retention system, no special tools needed. Specifications: 18.5" x 11.5" x 6.0" • Cable entry ports: (8) total- 2 express/feeder, 2 branch or lateral, 4 Multiport
• Express/Feeder cable diameter- Max. 1.124", Min 0.375" • Branch/Lateral cable diameter- Max. 0.98", Min 0.30".
• Capacity: Standard splice trays: 3 (enclosure is equipped with 1 tray) • Standard cables: 4 (2 express/feeder, 2 branch/lateral)
• FTTH Drops: 4 ports (up to 24 individual drops) • Standard single splices: 36 (can be equipped to support up to 60 fibers)

Multilink

PART #	DESCRIPTION	PRICE
F1-OTE	Starfighter OTE (Basic Enclosure)	$147.00
F1-OTE-CAK	OTE Cable Addition Kit for Branch or Lateral Cable Additions (3 Grommets .3 - .79" cable O.D.)	11.20
F1-OTE-4COR	Multiport (4 Entries) Drop Entry Kit for Corning Drop Cable	3.75
F1-OTE-6RND	Multiport (6 Entries) Drop Entry Kit for .265" Round Drop Cable	4.75
4048-SSTP	24 Position Plastic Splice Tray	17.25
105436	Aerial Hanger Bracket for OTE	13.65
105435	Wall / Pole Mounting Bracket for OTE	17.99

F1-OTE

Enclosures

www.fiberinstrumentsales.com

135

FM001038-BE

NEW

FM001029-BE

FAFL

C211372-BE

C211615-BE

AFL SPLICE ENCLOSURES

AFL Telecommunications' fiber termination panels are designed for use as rack mount interconnect point. The AFL enclosures are LGX 118 compatible for adapter panels and cassettes. Standard enclosures are sold empty for complete field configuration. See AFL adapter panels for this and other LGX 118 compatible enclosures on page 141.

PART #	DESCRIPTION	DIMENSIONS	PRICE
FM001038-BE	AFL Patch Panel, 1RU, Accommodates up to (3) LGX118 Adapter Panels	1.75"H x 17"W x 13.51"D	$120.00
FM001029-BE	AFL Patch Panel, 2RU, Accommodates up to (6) LGX118 Adapter Panels	3.5"H x 17"W x 13.51"D	145.00
C211372-BE	AFL Patch Panel, 4RU, Accommodates up to (12) LGX118 Adapter Panels	7"H x 17"W x 11"D	165.00
C211615-BE	AFL Patch Panel & Splice Bay, 7RU, Accommodates up to (12) LGX118 Adapter Panels/ (3) trays	11"H x 17"W x 12.25"D	295.00

Adapter Panels Pg. 141

5R1UA-A03

LEVITON

5R2UA-A06

LEVITON OPT-X 500/1000 ENCLOSURES

Leviton OPT-X 500 enclosures are available in 1RU, 2RU and 3RU sizes. One piece removable covers conceal and protect patchcords and allow easy access. Includes two cable tie downs in front and four in rear of closure. Mounts on standard 19" rack. OPT-X 1000 series closures fit both 19" and 23" rack applications. Enclosures listed are not fitted with a lockable front door.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
5R1UA-A03	1RU, empty, w/metal cover (holds (3) OPT-X adapter plates) 500 series	1.75" x19" x 12"	$110.45
5R2UA-A06	2RU, empty, w/metal cover (holds (6) OPT-X adapter plates) 500 series	3.5" x19" x 12"	146.00
5W120-00N	12 port Wall Mount holds no splice trays (holds (2) OPT-X adapter plates)	5" x 13" x 3.5"	90.50
5W320-00N	24 port Wall Mount holds (6) splice trays (holds (4) OPT-X adapter plates)	14" x 12" x 5.25"	118.90
5W720-00N	72 port Wall Mount holds (6) splice trays (holds (12) OPT-X adapter plates)	17" x 15" x 5.25"	222.95
5L000-LOK	Add on Lock & Key for Leviton Wall mount enclosures		8.25

CORNING

PCH-04U

CCS PRETIUM™ CONNECTOR HOUSING

These Corning housings are 4-inches deeper than the standard CCH housings for installing the splice tray holding option. The PCH-04 series contains an integral hinged jumper manager on the front of the housing. The PCH-01U housing has a removable top that slides forward with simple release providing access to interior components.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
PCH-01U	12 Fiber, 1U - accepts (2) CCH panels	1.75" x 17" x 16"	$260.35
PCH-02U	24 Fiber 2U - accepts (4) CCH panels		347.70
PCH-04U	72 Fiber, 4U - accepts (12) CCH panels	7" x 17" x 16"	410.00
PC1-SPLC-04R	Splice Tray Bracket for PCH-01U, accepts (4) type 2 trays or (2) type 4 trays.		37.55
PC4-SPLC-12SR	Splice Tray Bracket for PCH-04U, accepts (12) type 2S or (7) type 4S trays.		145.25

Enclosures

F1-RU24

F1-RU72

FIBER INSTRUMENT SALES, INC.
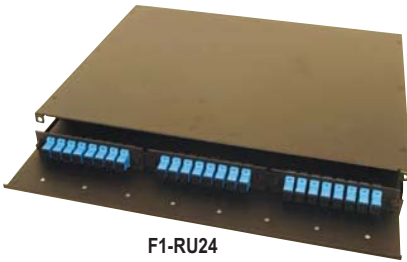
FIS HIGH DENSITY RACK MOUNT / PATCH & SPLICE

The FIS 19" High density rack mount panel box provides many flexible configurations in a 1RU or 4RU form factor. The slide-out tray in the FI-RU24 can be configured to hold three adapter panels and a splice tray, while the F1-RU72 can be configured to hold 12 adapter panels. These boxes are prefect for high density applications or any location where rack space is at premium. Boxes provide ample room for both mechincal and fusion splices.

- Slide-out tray
- Multiple internal mounting holes for cable tie-down, fiber management or splice tray mounting
- Hinged front and rear doors
- 19" mount converts to 23" frame
- Available in 1U and 4U units

Adapter Panels Pg. 142

PART #	DESCRIPTION	PRICE
F1-RU24	Unloaded - accepts (3) adapter panels - 1U	$59.95
F1-RU72	Unloaded - accepts (12) adapter panels - 4U	149.00

F1-RM12BLK

F1-RM24BLK

FIS 19" RACK MOUNT ENCLOSURES - SWING OUT

The 12 Port and 24 Port Rack Mount are used to house fiber terminations and accommodate patching of fiber links. The rear panel workspace has two cable retention rings for storage of excess fiber. Enclosure is constructed of 16 gauge steel with convenient swing-out base for easy access to fiber optic cables. (Available in beige, remove suffix - BLK from part number. ex. F1-RM12.)

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-RM12BLK	12 Port (Unloaded) Holds 2 (6 Packs)	1.75" x 17" x 11"	$69.00
F1-RM24BLK	24 Port (Unloaded) Holds 4 (6 Packs)	3.5" x 17" x 11"	90.00

F1-RM24XABLK
24 port patch panel
Holds 4 adapter panels

F1-RM48XBLK
(6) Six Packs = 36 port
(6) Eight Packs = 48 port
Holds 6 adapter panels

F1-RM72XBLK
(12) Six Packs = 72 port
(12) Eight Packs = 96 port
Holds 12 adapter panels

F1-RM144X
Holds 24 adapter panels

FIS RACK MOUNT ENCLOSURES - SINGLE SLIDING TRAY

The FIS Rack Mount Enclosure is designed for low or high density patching applications. This sturdy 16 gauge rack enclosure is available in 24, 48, 72, 96 and 144 port versions. This unit provides a lift-off door with front and back access to the slide-out tray. The FIS Rack Mount Enclosure features a smoked Lexan front door. Purchase 6 or 8 pack adapter panels. (Available in beige, remove suffix - BLK from part number example F1-RM72X.)

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-RM24XABLK	24 Port Rack Mount Enclosure (Unloaded) Holds 4 adapter panels	3.5" x 17" x 14"	$130.00
F1-RM48XBLK	48 Port Rack Mount Enclosure (Unloaded) Holds 6 adapter panels	4.75" x 17" x 14"	131.00
F1-RM72XBLK	72 Port Rack Mount Enclosure (Unloaded) Holds 12 adapter panels	7.125" x 17" x 14"	180.00
F1-RM144XBLK	144 Port Rack Mount Enclosure (Unloaded) Holds 24 adapter panels	15" x 17" x 14"	285.00

FIS RACK MOUNT ENCLOSURES - DUAL SLIDING TRAY

The F1-RS24 and F1-RS72 Rack Mount Splice and Termination Enclosure, allows for patching on top and convenient organization of splice trays in the bottom shelf. Both 24 and 72 patch and splice versions are available. Standard color is black. Use splice tray 4048-SSTP.
(One tray included with box)

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-RS24HBLK	24 Port (Unloaded)	7" x 17" x 14"	$220.00
F1-RS72HBLK	72 Port (Unloaded)	15" x 17" x 14"	270.00
4048-SSTP	Hinged Splice Tray 24 Fiber		17.25

F1-RS24HBLK

MOLEX COMPACT WALL MOUNT

This low profile enclosure is constructed of white rugged plastic and provides proper internal fiber management. Includes mounting screws, warning label and cable ties. (7.25" H x 5" W x 1.5" D)

PART #	DESCRIPTION	PRICE
WFR-00011-02	6-port ST style, loaded w/ SM adapters	$66.50
WFR-00010-02	6-port ST style, loaded w/ MM adapters	35.52
WFR-00030-02	6-port SC style, unloaded	20.00
WFR-00028-02	8-port duplex SC style, loaded w/ MM adapters	47.00
WFR-00029-02	8-port duplex SC style, loaded w/ SM adapters	75.00

AFL WALL MOUNT ENCLOSURES

AFL's wall mount interconnect enclosures provide a convenient convergence point for interconnecting and/or splicing in wall mount applications. Provisioned for LGX compatible adapter plates or optical modules, the enclosure features a well-engineered solution for fiber and cable management on both the ingress and egress openings of the enclosure. All WME series enclosures feature discrete access doors for provider and customer access which are independently lockable with a common pad-lock or tube-style key lock.

WME-02

PART #	DESCRIPTION	PRICE
WME-02	AFL Wall Mount Enclosure, Accommodates up to (2) LGX 118 adapter panels 12.0"H x 14.0"W x 2.5" D	$86.00
WME-04	AFL Wall Mount Enclosure, Accommodates up to (4) LGX 118 adapter panels 12.0"H x 14.0"W x 3.63" D	133.00

NEW

CORNING CABLE SYSTEMS WALL MOUNT ENCLOSURES

These metal cabinet units are suitable for loose tube and tight-buffered fiber optic cables. Enclose your fiber optic connections and, for extra protection, locking kits are available for purchase. Patch and splice your fiber cables with the purchase of a splice tray holder and trays for your application.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
WCH-02P	12 fiber WCH will Accept up to (2) CCH Adapter Panels	9.25" x 13.25" x 3.25"	$79.85
WCH-04P	24 fiber WCH will Accept up to (4) CCH Adapter Panels	13.5" x 16" x 4"	131.60
WCH-06P	48 fiber WCH will Accept up to (6) CCH Adapter Panels	13.5" x 16" x 4"	208.05
WCH-012P	144 fiber WCH will Accept up to (12) CCH Adapter Panels	13.5" x 22.5" x 5"	309.30
WCH-SPLC-4-8	Splice Tray Holder for WCH04, -06 and -08 units. Install 8 (Type 2R) or 4 (Type 4R) Trays		35.20
WCH-SPLC-12	Splice Tray Holder for WCH12, Install 12 (Type 2R) or 6 (Type 4R) trays		47.00
HDWR-LOCK-KIT	Field Installable Lock for Center Door only, Includes One Lock and Two Keys		21.25
M67-110	Splice Tray Holds 12 Heatshrink for WCH Series (Type 4R)		35.75
WCH-SPLC-2P	Splice Tray Holder for WCH-02P		14.85

WCH-SERIES

CCS WALL MOUNT SPLICE HOUSINGS (WSH SERIES)

The Corning Cable Systems WSH is designed to store fibers being spliced within the unit. The front door doubles as a work surface that can support the weight of a fusion splicer. Multiple cable entry/exit ports are provided on each side in addition to top and bottom. Grounding kits are available for purchase separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
WSH-11SPTF	Accepts up to Eleven (Type 4S, 4R or 4A) Trays	13.5" x 22.5" x 5.2"	$261.65
WSH-16SPT	Accepts up to Sixteen (Type 2S, 2R or 2M) Trays	13.5" x 22.5" x 5.2"	232.85

WSH-SERIES
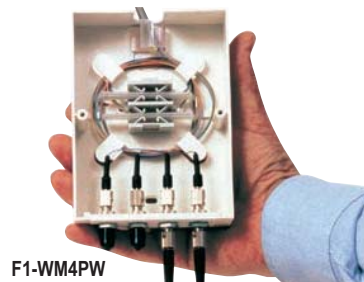
FIS 4 PORT WALL MOUNT

The 4-Port Wall Mount Box is a compact design ideal for data applications. It can either be wall mounted or placed in a floor box and can house up to (4) fibers, inline adapters and pigtails. Cables can be easily terminated or spliced together. The wall mount has facilities for incoming cable/fiber to be presented via mini-trunking grommets. Dimensions: 5"(W) x 6 1/2"(L) x 1 1/2"(H). Adapters and splice chip sold separately, on page 140.

PART #	DESCRIPTION	PRICE
F1-WM4PW	4-Port for ST, FC, SMA or D4 - Adapters not included	$9.25
F1-WM4S	4-Port for (2) SC Duplex Adapters - Adapters not included	11.75

F1-WM4PW

FIS SPLICE ENCLOSURE

The splice enclosure unit utilizes a 12 position molded splice chip to secure splices, for controlled environments, to be mounted on a wall. Cable entry grommets secure incoming/outgoing cable up to 12mm. Inside clamps provide the ability to coil excess cable. The F1-2011 is the same; it replaces splice holding chips with two mounted ST Mating Sleeves, handling up to 7mm cable. Dimensions: 2 1/8"(W) x 6 3/4"(L) x 4 3/4"(H)

PART #	DESCRIPTION	PRICE
F1-4868-FSS	Fusion Splice Enclosure (up to 7mm cable size)	$39.00
F1-4868-MSS	Mechanical Splice Enclosure (up to 7mm cable size)	39.00
F1-4868-FLL	Fusion Splice Enclosure (7mm to 12mm cable size)	39.00
F1-4868-MLL	Mechanical Splice Enclosure (7mm to 12mm cable size)	39.00
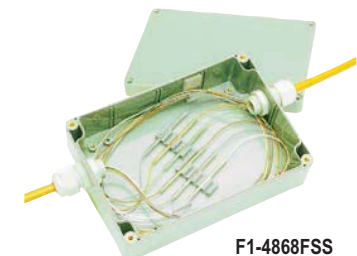
F1-4868FSS

F1-105818BLK

MINI WALL MOUNT

This 16 gauge steel wall mount features a single outer door with capacity for up to (2) standard FIS adapter panels. Dimensions: 10"H x 6"W x 2.5"D - Weight: 5 lbs. Color: Black

PART #	PRICE
F1-105818BLK	$35.50

FIS ECONOMY WALL MOUNT ENCLOSURES

FIS Economy Wall Mount Enclosures allow for patching of fiber optic cables. Made of lightweight steel and finished with scratch resistant powder coated paint. The enclosures feature a latch-secured front door. The enclosures include slack management and Velcro cable management loops. Available in beige, remove suffix -BLK example F1-EW12.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-EW12BLK	12 Port (Unloaded) Holds 2 Plates	10.18" x 12" x 3.5"	$50.00
F1-EW24BLK	24 Port (Unloaded) Holds 4 Plates	12" x 12" x 3.5"	58.00
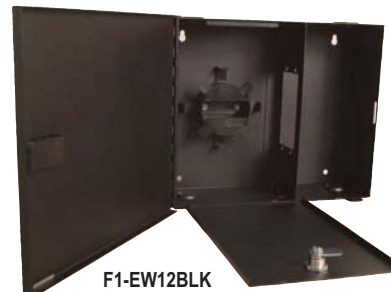
F1-EW12BLK

FIS DELUXE WALL MOUNT ENCLOSURES

The FIS Deluxe Wall Mount Enclosure includes keyed entry and double door access for trunk and distribution cables. The deluxe enclosure is available in a 24 & 54 port version. This rugged 16 gauge steel enclosure is perfect for patching cables in controlled environments and includes cable entry grommets. Available in beige, remove suffix -BLK example F1-DW24.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-DW24BLK	24 Port (Unloaded) Holds 4 Plates	10.8" x 12" x 4"	$93.50
F1-DW54BLK	54 Port (Unloaded) Holds 9 Plates	17.25" x 17" x 4.75"	147.00

F1-DW54

FIS PATCH & SPLICE WALL MOUNT ENCLOSURES

The FIS Patch and Splice Wall Mounts are lightweight and easy to install. This unit is a compact housing allowing both splicing and connecting fiber optic cables. The FF-WM012 can splice and terminate 12 fibers using 6-fiber panels. The FF-WM024 can splice and terminate 24 fibers using 6-fiber panels. Both units are ideal for use at building entrances, equipment rooms or other locations where space is scarce. Use Starfighter 1120-SSTA splice trays. Also available in black, add suffix -BLK example FF-WM012-BLK

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
FF-WM012	12 Port (Unloaded) Holds 2 Plates	6" x 12" x 4.5"	$120.00
FF-WM024	24 Port (Unloaded) Holds 4 Plates	16" x 14" x 4.5"	135.00
FF-WM048	48 Port (Unloaded) Holds 8 Plates	16" x 20" x 6.5"	150.00

FF-WM012

FIS DISTRIBUTION BOXES

The injection molded, lightweight distribution box is a streamlined design providing convenient double door entry at a super low price. The beige colored unit contains a plate holding up to 24 mating sleeves. Options listed are multimode version for ST and SC style.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-DB24XST	24 Port (ST Unloaded)	17.25" x 11.25" x 4"	$45.00
F1-DB24XSTL	24 Port (ST MM Loaded)	17.25" x 11.25" x 4"	72.00
F1-DB24XSC	24 Port (SC Unloaded)	17.25" x 11.25" x 4"	45.00
F1-DB24XSCL	24 Port (SC MM Loaded)	17.25" x 11.25" x 4"	75.00

F1-DB24XST

FIS WALL MOUNT SPLICE ENCLOSURE

Manufactured with 16 gauge steel, this indoor enclosure provides housing for up to 288 single fusion splices. Double doors lock on both sides and cable management hardware is included. Use Starfighter 2000-SSTA splice trays to utilize maximum capacity. Splice trays not included. Holds 12 splice trays.

PART #	DIMENSIONS (HxWxD)	PRICE
F1-SP288	17.5" x 21.4" x 4.75"	$142.00
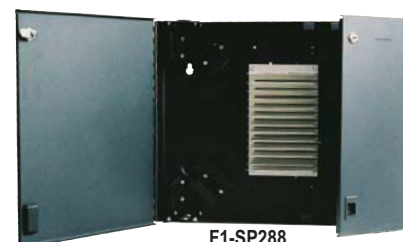
F1-SP288

Enclosures

F1-6808
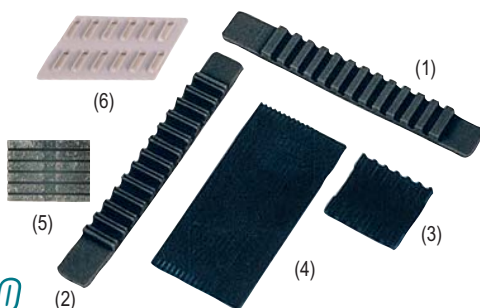
FIS SPLICE TRAY

The FIS Splice Tray is injection molded using UL94 fire retardant material. The tray is designed to fit in most splice closures and can accommodate 12 fusion, mechanical, bare fiber splices or 6 rigid fusion splices depending on the splice chips chosen. See splice holding chips below. The standard version accepts 12 fusion splice protection sleeves. Features include: fiber routing molded into the tray, fiber tie down holes, snap or slide together construction. Dimensions 7" L x 4.25" W x .48" H

PART #	DESCRIPTION	PRICE
F1-6808	Single fusion Splice Tray	$9.95
F1-6808M	Mechanical Splice Tray	9.95
F1-6808BA	Bare Fiber Splice Tray	9.95

F1-6707F

FIS ALUMINUM SPLICE TRAYS

The FIS Aluminum Splice Tray is available with four splice holding chip selections. In addition to the standard 12 position fusion and mechanical splice chip, purchase a 12 position bare fiber chip. The FIS Splice Tray is provided with a user installable press-on 'L' bracket when user desires looping to exit or enter side. Features of tray include: plastic coated aluminum, foam padded cover, radius sides and punched end holes. Complete instructions include how tray is installed into F1-2010 interconnect. Dimensions 7.5" L x 4" W x .63" H

PART #	DESCRIPTION	PRICE
F1-6707F	Fusion Splice 12 Position Soft Accepts Protection Sleeves	$13.50
F1-6707M	Mechanical Splice 12 Position Soft	13.50
F1-6707B	Bare Fiber 12 Position Rigid	13.50
F1-6707H	Fusion Splice 6 Position Rigid	13.50

F1-8735   **F1-8729**

FUSION SPLICE TRAYS

The Fusion Splice Tray is designed to hold up to 12 bare fibers or 12 fusion splices (12" or 7" lengths) that utilize the FIS Protection Sleeve (F1-1002). Splice trays have clear plastic covers

PART #	DESCRIPTION	PRICE
F1-8735C	Trays for Protection Sleeves (7"L x 4"W x .31"H)	$11.95
F1-8729	Splice Trays for Protection Sleeves (12"L x 4"W x .31"H)	24.50
F1-8729G	Fusion Splice Tray for Protection Sleeves (4" x 11")	16.00

M67-081

CORNING CABLE SYSTEMS SPLICE TRAYS

PART #	DESCRIPTION	PRICE
M67-081	Twelve Heat Shrink Sleeves (Type 2S)	$35.75
M68-031	Twelve Mechanical Splices (Type 2M)	32.45
M67-110	Twelve Heat Shrink or 6 Ribbon Shrink (Type 4R)	33.75
M67-112	Twenty Four Heat Shrink Sleeves (Type 2S)	35.75
M67-087	Twelve Mechanical Camsplice Splices (Type 4S)	35.75

1120-SSTP

STARFIGHTER SPLICE TRAYS

Starfighter Splice Trays are designed for use with the Multilink Starfighter series of closures. Each splice tray can accommodate single fusion, bare fusion, ribbon fusion, mechanical and fusion splice protection sleeves. Starfighter splice trays are durable to protect and hold your splice with confidence.

PART #	DESCRIPTION	PRICE
1120-SSTA	12 Position Aluminum (7"L x 4.75"W x .46"H) Limited availability	$19.95
1120-SSTP	12 Position Plastic (7"L x 4.75"W x .46"H)	13.00
2000-SSTA	24 Position Aluminum (12.25"L x 4"W x .46"H)	25.00
3000-SSTA	24 Position Aluminum (for 3000-F only) (8.5"L x 5.8"W x .43"H)	25.00
3030-SSTP	24 Position Plastic (for 3000-F & 4000-D) (8.25"L x 6"W x .5"H)	17.25
4048-SSTP	Hinged Splice Tray 24 Fiber (for 4048D, F1-RS24,F1-RS72)	17.25

F1-8731

FIS SPLICE BRIDGES

The FIS Splice Support Bridge is available in two basic designs. The 24-way splice bridge will accommodate up to 24 fusion splices or 12 mechanical. It is supplied with a protective lid with a designation label. The 4-way version will accept 4 fusion or mechanical splices.

PART #	DESCRIPTION	PRICE
F1-8730	Splice Bridge (4-way) Fits in The 4 Port Wall Mount	$2.25
F1-8731	Splice Bridge (up to 12 Mechanical or 24 Fusion Splices)	4.25

FIS FUSION & MECHANICAL SPLICE HOLDING CHIPS

Several styles of Splice Chips are available from FIS. Use double sided tape or epoxy to adhere soft chips to mounting surface. FIS will install any stocked Splice Chip in your FIS Splice Tray upon request.

PART #	DESCRIPTION	PRICE
F1-6707FCM	Protection Sleeve Chip 12 Position (Soft) (1) (non-adhesive backing)	65¢
F1-6707MCM	Mechanical Chip 12 Position (Soft) (2) (non-adhesive backing)	65¢
FSH-MR-06	Foam Fusion Splice Chips for Mini/Micro Sleeves (5)	75¢
USC-FN12	Bare Fiber Fusion Splice Chip 12 Position (Rigid) (4)	$2.35
USC-HS	Heat Shrink Splice Chip 6 Position (Rigid) (3)	1.00
FSH-LDR	Protection sleeve chip 12 position (plastic) (adhesive backing) (6)	2.55
275897-000	Raychem/Tyco 12ct Splice Chip for FOSC Trays	1.50

(1)
(6)
(5)
(2)
(4)
(3)

AFL ADAPTER PANELS
(Ask FIS Sales Rep for other Configurations)

PART #	DESCRIPTION	PRICE
C215971	6 Fiber ST Multimode, LGX 118 adapter plate	$16.95
C215975	6 Fiber ST Singlemode, LGX 118 adapter plate	18.00
C223576	12 Fiber ST Multimode, LGX 118 adapter plate	22.00
C223571	12 Fiber Singlemode, LGX 118 adapter plate	25.00
C215633	6 Fiber SC Multimode, LGX 118 adapter plate	15.50
C215611	6 Fiber SC Singlemode, LGX 118 adapter plate	17.00
FM002276	12 Fiber SC Multimode, LGX 118 adapter plate	28.50
FM002274	12 Fiber SC Singlemode, LGX 118 adapter plate	31.00
FM002275	12 Fiber SC 10GIG Aqua, LGX 118 adapter plate	35.95
C215935	6 Fiber FC Multimode/Singlemode, LGX 118 adapter plate	22.00
C216004	12 Fiber LC Multimode, LGX 118 adapter plate	28.95
C215993	12 Fiber LC Singlemode, LGX 118 adapter plate	32.00
FM002737	24 Fiber LC Singlemode, LGX 118 adapter plate	59.50
FM000852	24 Fiber LC Multimode 10GIG Aqua, LGX 118	62.50

ADAPTER PANELS
AFL
NEW

C215993

C215935

DID YOU KNOW?

LGX compatibility is a standard that is popular with most manufacturers. LGX compatibility is a standard distance between the black snap fasteners found on each end of the adapter panel. If an enclosure and an adapter panel are LGX compliant, those units will have the same specification dimensions for the snap fasteners and the panels can be used interchangeably.

LEVITON OPT-X ADAPTER PLATES

Designed to fit all Opt-X enclosures these adapter plates are available loaded with pre-installed fiber optic adapters such as LC, SC, ST, and MTP.

PART #	DESCRIPTION	PRICE
5F1001ST	Six Pack ST MM Adapter plate	$26.45
5F1006ZT	Six Pack ST SM Adapter plate	38.25
5F1006PF	SIx Pack FC MM Adapter plate	41.25
5F1006ZF	Six Pack FC SM Adapter plate	56.15
5F1006BC	Six Pack SC MM Adapter Plate	51.05
5F1006ZC	Six Pack SC SM Adapter Plate	56.15
5F1006CA	Six Pack, SC/APC, Singlemode Adapter Plate	56.15
5F10012P	Six Pack LC style Multimode	55.25
5F10012Z	Six Pack Duplex LC SM Blue Adapters	63.80
5F10012A	Six Pack Duplex LC MM 10GIG Aqua Adapters	63.80

Eight pack adapter plates and other configurations available.

LEVITON

5F1001ST

5F1006Z

Enclosures

CCS ADAPTER PANELS FOR CCH, WCH AND EDC SERIES

The Closet Connector Housing (CCH) panels are available in a variety of adapter styles for use with the LANscape® hardware products. Manufactured from steel, they are designed to be robust. Choose from the selection below or ask an FIS representative for other configurations.

PART #	DESCRIPTION	PRICE
CCH-CP06-15T	Six ST MM, Ceramic Insert	$32.80
CCH-CP06-19T	Six ST SM, Ceramic Insert	31.80
CCH-CP12-15T	Twelve ST MM, Ceramic Insert	45.45
CCH-CP12-19T	Twelve ST SM, Ceramic Insert	64.45
CCH-CP06-56	Six SC MM, Metal Insert	35.30
CCH-CP06-38	Six SC SM, Ceramic Insert	42.45
CCH-CP12-91	Six Duplex SC MM, Metal Insert	53.15
CCH-CP12-59	Six Duplex SC SM, Ceramic Insert	76.95
CCH-CP06-11	Six FC MM/SM, Ceramic Insert	55.30
CCH-CP12-97	Six MT-RJ MM Adapters	36.95
CCH-CP12-98	Six MT-RJ SM Adapters	64.95
CCH-CP12-A8	Six Duplex LC MM, Ceramic Inserts	78.60
CCH-CP24-E4	Twenty Four-Fiber LC, 10 Gig - Aqua	153.10
CCH-CP12-E7	Twelve-Fiber SC, 10 Gig - Aqua	70.25

CORNING

CCH-CP24-A8

CCH-CP12-91

19" 12 PORT PATCH PANELS

All metal feed through patch panel, available in SC, ST, FC, SMA and FDDI style adapters.
Enclosure for cable management not included.

PART #	DESCRIPTION	PRICE
F1-2075	for ST, FC, SMA Unloaded	$13.75
F1-2075SCP	SC Only Unloaded	15.70
F1-2075ST	Loaded 19" with ST Adapters (MM)	29.95
F1-2075STS	Loaded 19" with ST Adapters (SM)	35.95
F1-2075SC	Loaded 19" with SC Adapters (MM)	29.95
F1-2075SCS	Loaded 19" with SC Adapters (SM)	29.95
F1-2075FC	Loaded 19" with FC Adapters (MM)	50.25
F1-2075SMA	Loaded 19" with SMA Adapters (MM)	155.00

FIBER INSTRUMENT SALES, INC.

**Faceplate
Panel Only**

INNOVATIVE

F1-CCHBK

UNIVERSAL MOUNTING BRACKET FOR CORNING WCH & CCH BOXES

Now available from FIS is a Universal Mounting Bracket that allows installers to use adapter plates from FIS, Leviton, Multilink among other manufacturers in existing installations. These mounting brackets accept adapter plates (dimensions 1 1/4" x 5 1/8") into other manufacturer interconnects such as Corning WCH & CCH series boxes. When original manufacturers plates are not available installers can simply install this universal mounting bracket and utilize other plates to complete adds and changes. These mounting plates accept and work well with all adapter plates on this page or with Snap Packs™.

PART #	DESCRIPTION	PRICE
F1-CCHBK	Universal Mounting Bracket for Corning WCH & CCH Boxes (adapter plate not included)	$3.99

PLATES FOR FIS WALL & RACK MOUNT ENCLOSURES

F1-LC24LMAQBLK

F1-LC6DL

F1-LC6LBLK

F1-DSCILMBLK

F1DSC6ILS

F1-FC6LS

F1LC6DAQBLK

F1LC6L

F1SC6IAPC

F1SC8LS

F1SC6ILM

F1ST6LM

MTRJ6L

F1-SC6ILSBLK

F1-ST6LMBLK

BEIGE PART #	BLACK PART #	DESCRIPTION	PRICE
F1-Blank	F1-BlankBLK	Blank Plate with No Holes (Unloaded)	$2.85
F1-ST6	F1-ST6BLK	ST 6 Pack (Unloaded)	2.85
F1-ST6LM	F1-ST6LMBLK	ST 6 Pack (Multimode - Loaded)	14.00
F1-ST6LS	F1-ST6LSBLK	ST 6 Pack (Singlemode - Loaded)	17.00
F1-ST8	F1-ST8BLK	ST 8 Pack (Unloaded)	2.85
F1-ST8LM	F1-ST8LMBLK	ST 8 Pack (Multimode - Loaded)	18.00
F1-ST8LS	F1-ST8LSBLK	ST 8 Pack (Singlemode - Loaded)	21.00
F1-FC6	F1-FC6BLK	FC 6 Pack (Unloaded)	2.85
F1-FC6L	F1-FC6LBLK	FC 6 Pack (Multimode/Singlemode - Loaded)	21.00
F1-FC6LS	F1-FC6LSBLK	FC 6 Pack (Singlemode - Loaded)	23.00
F1-FC6APC	F1-FC6APCBLK	FC 6 Pack (APC Singlemode - Loaded)	29.00
F1-SC6I	F1-SC6IBLK	SC 6 Pack (Unloaded)	2.85
F1-SC6ILM	F1-SC6ILMBLK	SC 6 Pack (Multimode - Loaded) Beige Adapters	14.00
F1-SC6ILS	F1-SC6ILSBLK	SC 6 Pack (Singlemode - Loaded) Blue Adapters	17.00
F1-SC6IAPC	F1-SC6IAPCBLK	SC 6 Pack (APC Singlemode - Loaded) Green Adapters	17.00
F1-SC8	F1-SC8BLK	SC 8 Pack (Unloaded)	2.85
F1-SC8LM	F1-SC8LMBLK	SC 8 Pack (Multimode - Loaded) Beige Adapters	16.00
F1-SC8LS	F1-SC8LSBLK	SC 8 Pack (Singlemode - Loaded) Blue Adapters	19.00
F1-SC8APC	F1-SC8APCBLK	SC 8 Pack (APC Singlemode - Loaded) Green Adapters	19.00
F1-DSC6ILM	F1-DSC6ILMBLK	SC Duplex 6 Pack (Multimode - Loaded) Beige Adapters	20.00
F1-DSC6ILMAQ	F1-DSC6ILMAQBLK	SC Duplex 6 Pack (Multimode - 10 Gig Loaded) Aqua Adapters	20.00
F1-DSC6ILS	F1-DSC6ILSBLK	SC Duplex 6 Pack (Singlemode - Loaded) Blue Adapters	29.00
F1-MT-RJ6L	F1-MT-RJ6LBLK	MT-RJ 6 Pack (Multimode)	17.00
F1-LC6L	F1-LC6LBLK	LC Duplex 6 Pack (Multimode) 12 Fibers	15.00
F1-LC6DL	F1-LC6DLBLK	LC Duplex 6 Pack (Singlemode) 12 Fibers	25.00
F1-LC6APC	F1-LC6APCBLK	LC Duplex 6 Pack (APC Singlemode) 12 Fibers Green Adapters	39.00
F1-LC6DAQ	F1-LC6DAQBLK	LC Duplex 6 Pack (10 Gig) Aqua Adapters 12 Fibers	22.00
F1-LC24LM	F1-LC24LMBLK	LC Quad 6 Pack (Multimode) 24 Fibers	35.00
F1-LC24LMAQ	F1-LC24LMAQBLK	LC Quad 6 Pack (10 Gig) Aqua Adapters 24 Fibers	35.00
F1-LC24LS-LC	F1-LC24LS-LCBLK	LC Quad 6 Pack (Singlemode) Blue Adapters 24 Fibers	63.00
F1-MTP6L	F1-MTP6LBLK	MTP 6 Pack Plate Loaded with Adapters	55.00
F1-MTP8L	F1-MTP8LBLK	MTP 8 Pack Plate Loaded with Adapters	65.00

Enclosures

1.800.5000.FIS(347)

CUSTOM RACKS

FIS' expert manufacturing teams can load any rack mount box to your specifications for easy onsite installation. Just unpack, load in the rack, and splice, saving time loading boxes at the jobsite and making installations easy and efficient. Contact your FIS sales representative for pricing and other configurations.

CLOSURE TYPE	PORTS	COLOR	ADAPTER	STYLE	FIBER LENGTH (IN METERS)	SPLICE TRAY	SPLICE
WM	036	X	LU	T9	2	12	F

CLOSURE TYPE	PORTS	COLOR	ADAPTER	STYLE	SPLICE TRAY	SPLICE
WM=Wall Mount RM=Rack Mount CW=Corning Wall Mount CR=Corning Rack Mount LW=Leviton Wall Mount RS=Patch & Splice Rack Mount LR=Leviton Rack Mount AR=AFL Rackmount AW= AFL Wallmount	012=12 Ports 024=24 Ports 036=36 Ports 048=48 Ports 072=72 Ports 096=96 Ports 144=144 Ports 288=288 Ports	X=Beige B=Black	SC=SC MM SU=SC SM SA=SC/APC FC=FC MM FU=FC SM FA=FC/APC LC=LC MM LU=LC SM LA=LC/APC ST=ST MM SM=ST SM MJ=MT-RJ	T9=900μm pigtail T3=3mm pigtail MD=Module MP=Multi-Fiber pigtail	12=12 Fiber Position 24=24 Fiber Position	F=Single Fusion M=Mech. Splice R=Ribbon Fusion

Part # Example:
F1-WM-036-X-LU-T9-02-12-F

Translates to: Wall Mount, 36 Ports, Beige, LC Singlemode, 900μm Pigtail, 2 Meters, 12 Fiber Pos. Tray, Single Fusion

PIGTAILS FOR SPLICING-COLOR CODED 6 & 12 PACKS

6 Pack includes fiber colors of Blue/Orange/Green/Brown/Slate/White and are length of 3 meters. 12 Pack includes all twelve standard industry colors. Singlemode UPC - typical loss .3dB, back reflection –55dB / APC –typical loss .2dB, min. back refection –65dB. Multimode Typical Insertion Loss – max. .4dB

PART #	DESCRIPTION	LENGTH	PRICE
SP-6SCUPC	SC/UPC Singlemode 900μm (6 pack)	3 meters	$35.00
SP-12SCUPC	SC/UPC Singlemode 900μm(12 pack)	3 meters	70.00
SP-6SCAPC	SC/APC Singlemode 900μm (6 pack)	3 meters	42.00
SP-12SCAPC	SC/APC Singlemode 900μm (12 pack)	3 meters	84.00
SP-6STUPC	ST/UPC Singlemode 900μm (6 pack)	3 meters	45.00
SP-12STUPC	ST/UPC Singlemode 900μm (12 pack)	3 meters	90.00
SP-6LCUPC	LC/UPC Singlemode 900μm (6 pack)	3 meters	45.00
SP-12LCUPC	LC/UPC Singlemode 900μm (12 pack)	3 meters	90.00
SP-6SCMM	SC/PC 62.5μm 900μm (6 pack)	3 meters	30.00
SP-12SCMM	SC/PC 62.5μm 900μm (12 pack)	3 meters	60.00
SP-6SCMM50	SC/PC 50μm 900μm (6 pack)	3 meters	30.00
SP-12SCMM50	SC/PC 50μm 900μm (12 pack)	3 meters	60.00
SP-6SCMM50G	SC/PC 50μm OM3 900μm (6 pack)	3 meters	32.00
SP-12SCMM50G	SC/PC 50μm OM3 900μm (12 pack)	3 meters	64.00
SP-6LCMM	LC/PC 62.5μm, 900μm (6 pack)	3 meters	40.00
SP-6LCMM50	LC/PC 50μm, 900μm (6 pack)	3 meters	40.00
SP-6LCMM50G	LC/PC 50μm OM3 10G, 900μm (6 pack)	3 meters	45.00
SP-12LCMM	LC/PC 62.5μm, 900μm (12 pack)	3 meters	80.00
SP-12LCMM50	LC/PC 50μm, 900μm (12 pack)	3 meters	80.00
SP-12LCMM50G	LC/PC 50μm OM3 10G, 900μm (12 pack)	3 meters	85.00
SP-6STMM	ST/PC 62.5μm 900μm (6 pack)	3 meters	35.00
SP-6STMM50	ST/PC 50μm, 900μm (6 pack)	3 meters	35.00
SP-12STMM	ST/PC 62.5μm, 900μm (12 pack)	3 meters	70.00
SP-12STMM50	ST/PC 50μm, 900μm (12 pack)	3 meters	70.00

Multimode Pigtails Available!

RIBBON FAN-OUT PACKS

PART #	DESCRIPTION	PRICE
RF-3-BU-P-S-3-FIS-12	SM, SC/UPC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	$100.00
RF-3-BA-P-S-3-FIS-12	SM, SC/APC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	120.00
RF-3-AU-P-S-3-FIS-12	SM, FC/UPC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	100.00
RF-3-AA-P-S-3-FIS-12	SM, FC/APC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	120.00

FIS SNAP PACKS™

These pre-terminated adapter panels provide convenience to technicians splicing into fiber distribution frames. Available in 6 or 12 fiber bundles with TIA-598-A standard color code, these bundled fibers provide cable management from patchpanel to splice bays. Custom lengths and different connector style adapter panels are available, contact your FIS sales associate.

PART #	DESCRIPTION	PRICE
F1-SC6LS-SPN	(6) Adapters, SC/UPC, 6 Fiber Pigtail, Singlemode, 3 Meters	$67.50
F1-DSC6LS-SPN	(6) Duplex Adapters, SC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters	175.50
F1-SC6APC-SPN	(6) Adapters, SC/APC, 6 Fiber Pigtail, Singlemode 3 Meters	88.00
F1-LC6DL-SPN	(6) Duplex Adapters, LC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters	176.00
F1-DSC6LM-SPN	(6) Duplex Adapters, SC,12 Fiber Pigtail, 62.5/125μm OM1, 3 Meters	117.00
F1-ST6LM-SPN	(6) Adapters, ST, 6 Fiber Pigtail, 62.5/125μm OM1, 3 Meters	62.00
F1-ST6LS-SPN	(6) Adapters, ST, 6 Fiber Pigtail, Singlemode, 3 Meters	68.00
F1-SC6LM-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 62.5/125μm, 3 Meters	62.00
F1-SC6LM50-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125μm, 3 Meters	62.00
F1-SC6LM50G-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125μm OM3 10G, 3 Meters	68.00
F1-DSC6LM50-SPN	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125μm, 3 Meters	117.00
F1-DSC6LM50G-SPN	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125μm OM3 10G, 3 Meters	135.00
F1-LC6DLM-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, 62.5/125μm, 3 Meters	117.00
F1-LC6DLM50-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, 50/125μm, 3 Meters	117.00
F1-LC6DLM50G-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, OM3 10G, 3 Meters	135.00
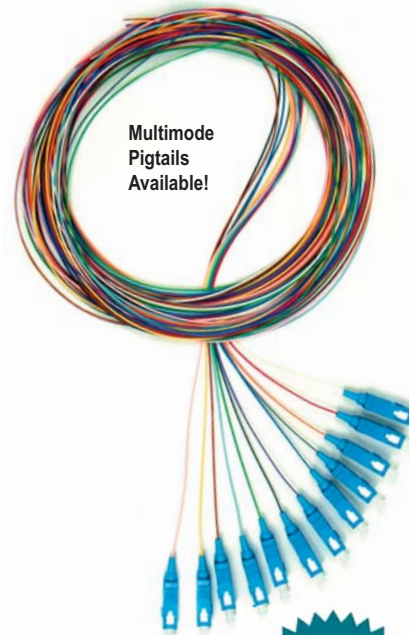
FIBER INSTRUMENT SALES, INC.

Additional Configurations Available!
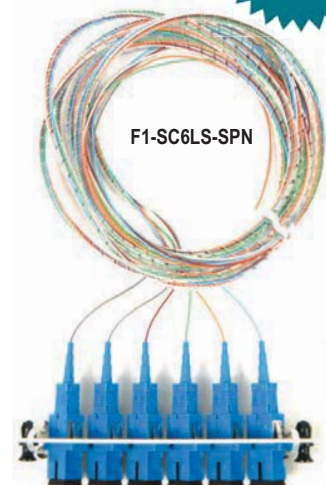
F1-SC6LS-SPN

Enclosures

www.fiberinstrumentsales.com

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Enclosures

PIVOTING PANEL MOUNT
WALL MOUNT RACKS PROVIDE EASY REAR ACCESS

- Unique design allows punching down while fully open
- Solid back and open back design for mounting over wall obstructions such as conduit or raceways
- Abundant internal tie points for cable management
- Includes hook and loop cable fasteners

PART #	DESCRIPTION	PRICE
PPM-2	2RU x 6"D Pivoting panel mount	$55.00
PPM-4	4RU x 6"D Pivoting panel mount	65.00
PPM-6	6RU x 6"D Pivoting panel mount	69.00
PPM-6-12	6RU x 12"D Pivoting panel mount	110.00
PPM-8-12	8RU x 12"D Pivoting panel mount	120.00
PPM-8-18	8RU x 18"D Pivoting panel mount	135.00
PPM-6-16OB	2RU x 6"D Open Back Piv panel	115.00

PPM Series

SWING FRAME RACK

- Open-back design maximizes useable wall space
- 90º opening with positive stop facilitates punching down of wires
- Ships ready-to-assemble to reduce space needed for storage and transport
- Abundant tie points and cable pass-throughs ease cable management

PART #	DESCRIPTION	PRICE
SFR-12-18	12RU x 18" Deep swing wall rack	$145.00
SFR-12-24	12RU x 24" Deep swing wall rack	165.00
SFR-20-18	20RU x 18" Deep swing wall rack	185.00
SFR-20-24	20RU x 24" Deep swing wall rack	225.00
SFR-25-18	25RU x 18" Deep swing wall rack	209.00
SFR-25-24	25RU x 24" Deep swing wall rack	240.00

SFR Series

WALL-MOUNT RELAY RACKS
- Self-aligning design speeds assembly
- Rugged steel construction

WM Series

PART #	DESCRIPTION	PRICE
WM-8-12	8RU x 12"D wall rack	$105.00
WM-15-12	15RU x 12"D wall rack	109.00
WM-30-12	30RU x 12"D wall rack	129.00
WM-8-18	8RU x 18"D wall rack	120.00
WM-15-18	15RU x 18"D wall rack	130.00
WM-30-18	30RU x 18"D wall rack	145.00

19"&23" ALUMINUM OPEN FRAME RACK/VERTICAL CABLE MANAGER

- 1600 lb. weight capacity
- 16" extruded aluminum uprights are 12-24 threaded front and rear
- Heavy duty 1/4" aluminum base is 15" deep for stability and includes holes for securing to floor

PART #	DESCRIPTION	PRICE
RLA19-1245	45RU x 19"W Floor Mount 2 Post –Silver	$135.00
RLA19-1245B	45RU x 19"W Floor Mount 2 Post –Black	135.00
RLA19-1251B	51RU x 19"W Floor Mount 2 Post -Black	215.00
RLA-CC	45RU Vertical Cable Manager-Black	185.00

RLA Series

WMRK SERIES MULTI-VENDOR SERVER ENCLOSURE

- Standard front and rear adjustable cage nut style rail with Z-rail adaptors to accommodate most server-slide kits
- Static load capacity: 10,000 lbs, UL Listed load capacity: 2,500 lbs, Seismic Certified load capacity: 1,090 lbs
- 24" overall width optimized for use on raised floors

PART #	DESCRIPTION	PRICE
WMRK-4236SVR	42RU x 36" D Configured Server Enclosures	$1,750.00
WMRK-4242SVR	42RU x 42" D Configured Server Enclosures	1,875.00
WMRK-2436SVR	24RU x 36" D Configured Server Enclosures	1,560.00

STANDARD RACK SCREWS CAGE NUTS HARDWARE (NOT PICTURED)

PART #	DESCRIPTION	PRICE
HP500	Truss Head 10-32 thread 500 pc. in a reusable jar	$69.00
HPS	Truss Head 10-32 thread 25 pc. in a poly bag	4.05
HW500	Trim Head 10-32 thread 500 pc. in a reusable jar	90.00
CN6MM-100	100 pc. 6mm cage nuts	51.00
CN1032-50	50 pc. 10-32 cage nuts	23.50
HP-24	12-24 thread 100 pc. (12-24) thread	17.00
HP24-500	12-24 thread 500 pc. (12-24) thread in a reusable jar	81.00
HP-6MM	100 pc. 6mm phillips head rackscrews	29.00

WMRK Series

DATA CABLE ACCESSORIES

Utilize plastic distribution rings or "D" rings, attach to a backboard, ceiling or a wall to support voice and data cables. The plastic rings feature rounded edges that will prevent damage to the wire and cable in addition to allowing for easier "pull." Available in 2", 3" or 5" sizes.

PART #	DESCRIPTION	PRICE
F1-PDR2	Plastic Distribution Ring (2")	$1.40
F1-PDR3	Plastic Distribution Ring (3")	1.95
F1-PDR5	Plastic Distribution Ring (5")	2.25

F1-PDR5 **F1-PDR3** **F1-PDR2**

LEVITON CABLE MANAGEMENT

PART #	DESCRIPTION	PRICE
4980L-VFO	Versi-Duct Slotted Vertical Cable Mgmt- Front only, 80" length	$105.00
4980L-VFR	Versi-Duct Slotted Vertical Cable Mgmt- Front & Rear, 80" length	160.00
492RU-HFR	Versi-Duct Horizontal Front and Rear Only Cable Mgmt-2U	38.00
492RU-HFO	Versi-Duct Horizontal Front Only Cable Mgmt-2U	35.00
491RU-HFO	Versi-Duct Horizontal Front Cable Mgmt-1U	28.00
491RU-HFR	Versi-Duct Horizontal Front and Rear Cable Mgmt-1U	36.00
49265-SL1	Versi-Duct Slack Loop Storage Organizer (min. qty. 10)	7.75
49253-BCM	Horizontal Patch Cord Organizer 2U, 4" Rings	42.60
49253-LPM	Horizontal Patch Cord Organizer 1U, 4" Rings	30.00
49005-CMB	Cable Management Bar (min. qty. 10)	16.50
49005-EMB	Extended Cable Management Bar (min. qty. 10)	37.00
49300-SM2	Slack Manager (includes 4 spools)-2U	34.00
49400-FHB	Front Hinge Bracket	55.00
S4VTE-TEC	Vertical "T" Connector (min. qty. 5)	55.00

(Note: Additional Rack & Frame Cable Management Components/Accessories are available.)

Slack Manager 49300-SM2

492RU-HFO

MULTIRACEWAY USED FOR FIBER OPTIC & COPPER CABLE

The one-piece design of rigid vinyl features a highly flexible hinge and self-locking latch. Holding cables to a one inch bend radius, end-to-end connectivity can be maintained even when raceway is filled to capacity. Sizes available: 3/4", 1 1/4" and 1 3/4". Please note all Raceways are Ivory color.

PART #	DESCRIPTION		PRICE
MRM17-I-T	MultiRaceway Molding 1 3/4"W x 1"H x 6'L (a)	(Minimum Qty. 10)	$9.75
MRF17-OCR-I	MultiRaceway Outside Corner Fitting 1 3/4"W (b)	(Minimum Qty. 10)	1.35
MRF17-ICR-I	MultiRaceway Inside Corner Fitting 1 3/4"W (c)	(Minimum Qty. 10)	1.35
MRF17-FER-I	MultiRaceway Flat Elbow Corner Fitting 1 3/4"W (d)	(Minimum Qty. 10)	2.20
MRF17-T-I	MultiRaceway Tee Fitting 1 3/4"W (e)	(Minimum Qty. 10)	2.00
MRF17-JC-I	MultiRaceway Joint Cover Fitting 1 3/4"W (f)	(Minimum Qty. 10)	1.10
MRF17-EC-I	MultiRaceway End Cap Fitting 1 3/4"W (g)	(Minimum Qty. 10)	1.10
MRF17-R7-I	MultiRaceway Reducer Fitting 1 3/4"W (h)	(Minimum Qty. 10)	1.10
MRF17-CE-I	MultiRaceway Ceiling Entry Fitting 1 3/4"W (i)	(Minimum Qty. 10)	2.00
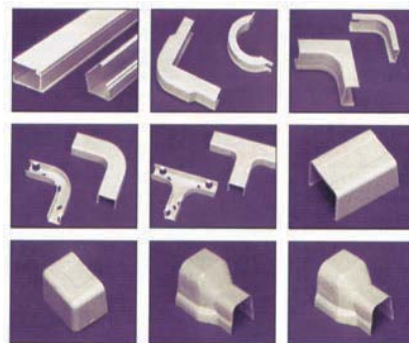
CABLE LADDERS

A complete line of 12" wide black powder coated ladder racks are available and are compatible with both retrofit and new installations.

PART #	DESCRIPTION	PRICE
F1-CL6-12	6' Length x 12" Wide Straight Section (12 Pieces, Pictured)	$645.00
F1-CL10-12	10' Length x 12" Wide Straight Section (12 Pieces)	1,030.25
F1-CL90	90 Degree Horizontal Bend (Pictured)	88.55
F1-CL90-VI	90 Degree Vertical Inside Bend	73.10
F1-CLSH	Ladder Stringer Junction Hardware (Pair)	6.75
F1-CLHT	Horizontal 90 Degree Tee Splice Hardware (Pair)	8.60
F1-CLAHT	Adjustable Horizontal Splice Hardware (Pair)	21.25
F1-CLED	Cable Ladder End Drop, 3 Spools Included	41.85
F1-CLSD	Cable Ladder Side Drop, 3 Spools Included	41.85
F1-CLEC	Ladder End Caps (12 Pack)	28.90
F1-CLWC	Ladder Wall Clamp (Pair)	13.50
F1-CLWH	Ladder Wall Support Hardware (Pair)	20.90
F1-CLTB	Triangle Wall Support Bracket	30.80

F1-CL6-12

F1-CL90
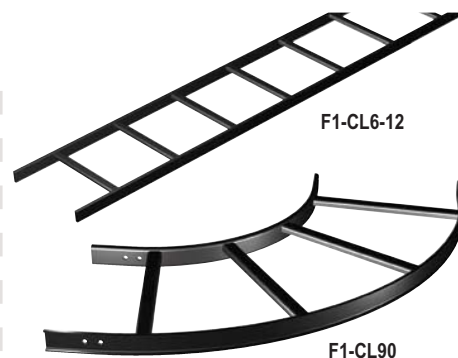
MULTI-MOUNT RACKMOUNT POWER

• Shallow 4" depth
• Up 20 total outlets, front and rear
• 9', 14 gauge SignalSafe™ power cord minimizes the effects of AC magnetic fields
• Reversible, adjustable mounting ears provide more flexible installation options with either 0º or 90º mounting

PART #	DESCRIPTION	# OF OUTLETS	PRICE
PD-1820R-RN	One 20 Amp, 2-stage with remote notification	18 (10 front, 8 rear), always on, breaker	$105.65
PD-2015R-NS	One 15 Amp, 2-stage with remote notification	20 (10 front, 10 rear), always on, breaker	50.45
PD-2020R-NS	One 20 Amp, 2-stage with remote notification	20 (10 front, 10 rear), always on, breaker	92.20

PD-2015R-NS
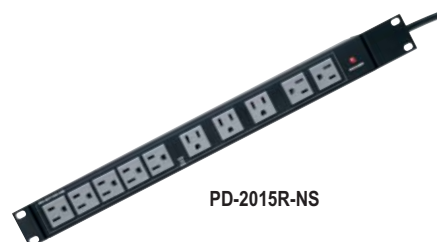
PLP TELEGRIP

Telegrips are designed for service drop applications of coaxial cables. Flexible but firm, Telegrips exceed mechanical holding requirements for coaxial cable. The long length design reduces stress levels and eliminates the possibility of crushing the cable or affecting its dielectric properties. Also, its unique gripping principle prevents bending that can cause "snow" or distortion of the television picture.

PART #	DESCRIPTION	PRICE
DE-1500	Telegrip/.242 RG59U/.275 RG6/U - Package of 500	$330.00

PLP DROP WIRE DEAD-ENDS

PREFORMED™ Drop Wire Dead-ends and Figure-8 Dead-Ends provide an easy, low-cost way to support service drop wire without bail failures or stripping of the insulation. Rapidly applied by hand without tools, they are adjusted to exert firm uniform holding power throughout their length, without crushing or damaging drop wire. Wrap-on design prevents potentially damaging stress points. PREFORMED Drop Wire Deadends present a trim, neat appearance, and are manufactured of neoprene-coated stainless steel for added protection against the elements

PART #	DESCRIPTION	PRICE
DE-2505	Dead-End Service Mess - Package of 200	$160.00
DE-2518	De-dual-coaxl/GS-.405, RG11/U - Package of 200	550.00
DE-2525	Dead-End Service Mess - Package of 200	160.00
DE-3329	Dead-End Coaxl/SS-.242, RG59/U - Package of 200	CALL FOR PRICING
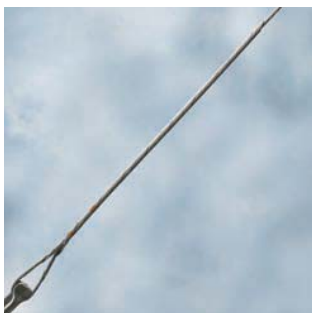
PLP GUY GRIP DEAD ENDS

GUY-GRIP Dead-ends, installed at the top, the breaker and the anchor, provide today's most effective method for securing guy strand. This unique, one-piece dead-end is neat in appearance and free from bolts or high-stress holding devices. The GUY-GRIP Dead-end was the first to offer the cabled loop, a feature that provides more durability, easier tensioning and adaptability to multiple guying.

PART #	DESCRIPTION	PRICE
GDE-1104	Guy-Grip Dead-End 1/4" - Package of 50	$182.50
GDE-1106	Guy-Grip Dead-End 5/16" - Package of 50	240.00
GDE-1107	Guy-Grip Dead-End 3/8" - Package of 50	297.50
GDE-1108	Guy-Grip Dead-End 7/16" - Package of 25	232.50

PLP FALSE DEAD-ENDS

PREFORMED False Dead-ends are a fast, safe, and economical method for false dead-ending strand. They are designed to be easily applied without any special tools, and because False Dead-ends are made from the same material as the strand, they will hold the same published rated breaking strength.

PART #	DESCRIPTION	PRICE
GFDE-2121	False Dead-End 1/4" - Package of 25	$153.73
GFDE-2123	False Dead-End 5/16" - Package of 25	167.50
GLS-1104	Splice-Strand - Package of 50	242.50
GLS-2104	Splice-Strand 1/4" - Package of 50	282.50
NDE-9500	Dead-End Drop Wire - Package of 100	275.00
NDE-9501	Dead-End Drop Wire - Package of 100	CALL FOR PRICING

PLP POLYETHYLENE GUY-GUARD

PREFORMED™ Guy Markers are used for identifying Down Guys or other wire and cable installations where anchoring devices are exposed to pedestrian and/or vehicular traffic.

PART #	DESCRIPTION	PRICE
PG-5716	Polyethylene Guy-Guard - Package of 25	$283.75
PG-5717	Polyethylene Guy-Guard - Package of 25	290.00
PG-5718	Polyethylene Guy-Guard - Package of 25	296.25

PLP TREE GUARDS

PREFORMED™ Tree Guards are designed to protect bare conductors, fabric-covered or plastic-covered cables and fiber optic cables against mechanical abrasion caused by tree limbs or other obstructions. Tree Guards provide fast, easy application without disconnecting the wire. Tree guards are applied around the wire, and taped at each end. High impact polyethylene has strong abrasion resistance, strong weathering endurance, and high dielectric properties.

PART #	DESCRIPTION	PRICE
PTG-0202	Tree Guard-Poly (1"x8') - Package of 450	$157.50
PTG-0203	Tree Guard-Poly (1"x6') - Package of 60	186.00
PTG-0207	Tree Guard-Poly (2"x6') - Package of 20	122.00
5005500	Fiber Optic Cable Guard - Package of 450	270.00

COPPER

NEW

HDMI CABLES

HDMI cables provide an interface between any A/V source, such as HDTV's, Blu-ray/HD DVD Players, and A/V receivers. Supports 720p, 1080i & 1080p.

PART #	DESCRIPTION	PRICE
F1-HDMI-03	HDMI Cable - 3 Feet	$7.00
F1-HDMI-06	HDMI Cable - 6 Feet	9.45
F1-HDMI-10	HDMI Cable - 10 Feet	12.75
F1-HDMI-20	HDMI Cable - 20 Feet	19.45
F1-HDMI-25	HDMI Cable - 25 Feet	23.00
F1-HDMI-50	HDMI Cable - 50 Feet	88.00

Cat 6 & Cat 5e PATCHCORDS FEATURES:

- Meet or Exceed Cat 5e Performance Standards
- 4-pair Stranded Unshielded, 24 AWG Conductor Cables
- Non-Plenum (CMR) Rated
- Pre-terminated with 8 Position RJ 45 Plug
- Available in a Variety of Lengths and Colors
- Universal Wiring ANSI/TIA T568A/T568B Standards

CATEGORY 5e STRANDED UNSHIELDED PATCH CABLE WITH SNAGLESS BOOT

MOLEX

PART #	LENGTH	PRICE
PCD00173-XX	1ft	$2.40
PCD00174-XX	3ft	2.75
PCD00175-XX	5ft	2.95
PCD00176-XX	7ft	3.05
PCD00177-XX	10ft	3.25
PCD00178-XX	15ft	3.55
PCD00179-XX	25ft	4.95

(Note: When ordering, the above Cat 5e cords, replace XX with color: OC=red, OH=Blue, BK=black, OW=white, OE=gray, OK=yellow, OP=purple, ON=Orange, OJ=green)

LEVITON

PART #	LENGTH	PRICE
5G460-03-X	3ft	$2.25
5G460-05-X	5ft	2.55
5G460-07-X	7ft	2.85
5G460-10-X	10ft	3.40
5G460-15-X	15ft	4.20
5G460-20-X	20ft	5.35

(Note: When ordering the above Cat 5e cords, replace X with color: I=ivory, W=white, G=gray, E=black, O=orange, C=red, Y=yellow, V=green, P=purple, A=almond)

QUEST

PART #	LENGTH	PRICE
CT-6080-03-XX	3ft	80¢
CT-6080-05-XX	5ft	$1.05
CT-6080-07-XX	7ft	1.30
CT-6080-10-XX	10ft	1.75
CT-6080-15-XX	15ft	2.35
CT-6080-25-XX	25ft	3.85

(Note: When ordering the above Cat 5e cords, replace XX with color: BK=black, BU=blue, GN=green, GY=gray, OR=orange, RD=red, WH=white, YE=yellow)

CATEGORY 6 STRANDED, UNSHIELDED PATCH CABLE WITH SNAGLESS BOOT

MOLEX

PART #	LENGTH	PRICE
PCD00200-XX	1ft	$4.15
PCD00201-XX	3ft	5.00
PCD00202-XX	5ft	5.25
PCD00203-XX	7ft	5.50
PCD00204-XX	10ft	5.65
PCD00205-XX	15ft	7.80
PCD00206-XX	25ft	9.80

(Note: When ordering, the above Cat 6 cords, replace XX with color: OC=red, OH=Blue, BK=black, OW=white, OE=gray, OK=yellow, OP=purple, ON=Orange, OJ=green)

LEVITON

PART #	LENGTH	PRICE
62460-03-X	3ft	$3.25
62460-05-X	5ft	4.10
62460-07-X	7ft	4.95
62460-10-X	10ft	5.75
62460-15-X	15ft	7.25
62460-20-X	20ft	8.75

(Note: When ordering the above Cat 6 cords, replace X with color: I=ivory, W=white, G=gray, E=black, O=orange, C=red, Y=yellow, V=green, P=purple, A=almond)

QUEST

PART #	LENGTH	PRICE
CT-6081-03-XX	3ft	$1.75
CT-6081-05-XX	5ft	2.10
CT-6081-07-XX	7ft	2.40
CT-6081-10-XX	10ft	2.85
CT-6081-15-XX	15ft	3.75
CT-6081-25-XX	25ft	5.30

(Note: When ordering the above Cat 6 cords, replace XX with color: BK=black, BU=blue, GN=green, GY=gray, OR=orange, RD=red, WH=white, YE=yellow)

One Week Lead Time

CUSTOM COPPER ASSEMBLIES:

Custom Cat5e & Cat6 Patch Cords can be made with or without snagless boots. Available in Black, Blue, Green, Pink, Purple, Red, White, and other colors. Each patch cord is tested and verified to ensure performance per TIA standards.

- **Any Length**
- **Any Wiring Configuration**
- **Any Color**
- **Booted or Non-Booted**
- **Labeling Available**
- **You Provide the Spec**
- **Cross-over also Available**

Other Copper assemblies are available.

Call for more information!

CATEGORY 6 BULK 4 PAIR CABLE

HITACHI

PART #	DESCRIPTION	PRICE
30024-8-XX-2	CAT6 UTP Riser cable (CMR)	$145.00
30237-8-XX-2	CAT6 UTP Plenum cable (CMP)	256.00

(Note: When ordering, replace XX with BK = Black, BL = Blue, BR = Brown, GA = Gray, GR = Green, RD = Red, WH = White, and YE = Yellow.)

MOLEX

PART #	DESCRIPTION	PRICE
CAA-0181R-XX	CAT6 UTP Riser cable (CMR)	CALL
CAA-0181P-XX	CAT6 UTP Plenum cable (CMP)	CALL

(Note: When ordering, replace XX with 02=white, 08=Lt Grey, BL=blue. These p/n's are boxes.)

REMEE CABLE

PART #	DESCRIPTION	PRICE
6A234UTPRM3-X	CAT6 23awg Riser Cable - 250MHz	$121.00
6B234UTPM3-X	CAT6 23awg Plenum Cable - 250MHz	235.00
6B234UTPENHM3-X	CAT6 23awg Plenum Cable - 550MHz	255.00

(Note: When ordering, replace X with O-Blue, W-white, Z-Orange, E-Green, G-Gray, Y-yellow)

CAT6 UTP & Cat 6E UTP FEATURES:
• CAT6 meets or exceeds all of the ANSI/TIA-568-C.2 Specifications
• Standard lengths are 1,000 feet (305 meters)
• 23 AWG, solid conductors

Rip Cord
Jacket
Core Filler
Conductor
Insulation

CATEGORY 5e BULK 4 PAIR CABLE

HITACHI

PART #	DESCRIPTION	PRICE
38696-8-XX-2	Cat5e UTP Riser Cable CMR	$105.00
39419-8-XX-2	Cat5e UTP Plenum Cable CMP	165.00

(Note: When ordering, replace XX with BK = Black, BL = Blue, BR = Brown, GA = Gray, GR = Green, RD = Red, WH = White, and YE = Yellow.)

MOLEX

PART #	DESCRIPTION	PRICE
CAA-0184R-XX	Cat5e UTP Riser cable CMR (100 MHz)	CALL
CAA-0184P-XX	Cat5e UTP Plenum cable CMP (100MHz)	CALL

(Note: When ordering, replace XX with 02=white, 08=Lt. Grey, BL=blue. These part numbers are boxes.)

REMEE CABLE

PART #	DESCRIPTION	PRICE
5AE244UTPRM2-X	Cat5e Riser Cable - 100MHz	$78.00
5BE244UTPM2-X	Cat5e Plenum Cable - 100MHz	159.00
5BE244UTP350M2-X	Cat5e Plenum Cable - 350MHz	163.00

(Note: When ordering, replace X with O-Blue, W-white, Z-Orange, E-Green, G-Gray, Y-yellow)

CAT5e+ & 5e UTP CABLES FEATURES:
• All cables listed meets or exceeds all of the ANSI/TIA-568-C.2 Specifications
• 24 AWG, solid conductors

Rip Cord
Jacket
Conductor
Insulation
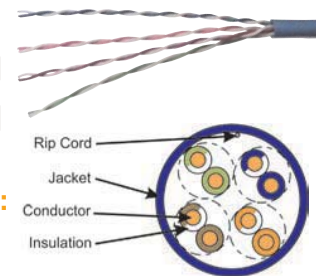
Obtained from Hitachi Cable Manchester 2009 Product Catalog

DID YOU KNOW	Category 3	Category 5e	Category 6	Category 6A	Category 7
Voice	◆	◆	◆	◆	◆
T1 Fractional	◆	◆	◆	◆	◆
IBM Type 3-1 Mbps	◆	◆	◆	◆	◆
4/16 Mbps Token Ring	◆	◆	◆	◆	◆
10BASE-T Ethernet	◆	◆	◆	◆	◆
100BASE-T4 Ethernet	◆	◆	◆	◆	◆
25.6 Mbps ATM	◆	◆	◆	◆	◆
100 VG Any LAN	◆	◆	◆	◆	◆
All other application developed to operate over Category 3 or class C cabling	◆	◆	◆	◆	◆
100 Mbps TP-PMD		◆	◆	◆	◆
155 Mbps ATM		◆	◆	◆	◆
270 Mbps digital video		◆	◆	◆	◆
Broadband video		◆	◆	◆	◆
100BASE-TX Fast Ethernet		◆	◆	◆	◆
1000BASE-T Gigabit Ethernet		◆	◆	◆	◆
All other application developed to operate over Category 5e or class D cabling		◆	◆	◆	◆
1000 Mbps ATM (CBIG)			◆	◆	◆
All other application developed to operate over Category 6 or class E cabling			◆	◆	◆
10GBASE-T			◆	◆	◆
All other application developed to operate over Category 6A or class E_A cabling				◆	◆
All other application developed to operate over Category 7 or class F cabling					◆

Cat 7 Cable standard has not yet been ratified.
Cat 6 UTP will accommodate 10GBASE-T to 37m. Cat 6 ScTP will accommodate 10GBASE-T to 100m.

MOLEX SLT3

FEATURES
• Verifies 1, 2, 3, and 4 pair UTP channels
• Unique 3-in-1 design
• Built-in Modular Jacks for USOC, EIA 568A and 568B
• Tests Open and Short Circuits

PART #	DESCRIPTION	PRICE
33-100	SLT3 UTP Single Line Tester	$62.99

TEMPO COPPER TESTING KITS

When it comes to wire identification, there's no better tool to have than the 701K Classic Tone & Probe Kit, from the world's largest manufacturer of tone & probe kits! This popular tone & probe kit is used by technicians everywhere to identify single conductors or cables within a bundle at a cross-connect point, or at remote ends.

Designed for more accurate wire identification, the 801K virtually eliminates power-related noise from their tone and probe operation. Our finest wire identification kit, the 801K Premium Tone & Probe Kit offers all the features professionals are looking for.

Tone & Probe Kit Includes: 77HP High Power Tone Generator and the 200EP Inductive Amplifier in a Rugged, Woven Polyester Carrying Case.

PART #	DESCRIPTION	PRICE
701KG	Tone and Probe Kit	$110.96
801K	Premium Tone and Probe Kit	180.55
45472	Telecom Tech Kt (Pictured)	698.23

JDSU VALIDATORPRO

ValidatorPRO Ethernet speed certifier with optical power meter and Ethernet speed certifier with optical power meter, measures optical power on singlemode and multimode fiber. The ValidatorPRO Certifies a network installation to meet 10/100/1000 Mb/s. ValidatorPRO uses Ethernet speed specifications using BER tests as well as Measures Skew, SNR, and cable length along with cable verification tests and hub flash. Includes Plan-Um® software. Also available with Active Network Test.

PART #	DESCRIPTION	PRICE
NT1150	ValidatorPRO Ethernet Speed Certifier with Optical Power Meter	$1,695.00
NT1155	ValidatorPRO-NT Ethernet Speed Certifier with OPM & Active Network Test	2,395.00

NETCAT STRUCTURED WIRING TESTER & TROUBLE SHOOTER

The NETcat® Pro is a digital tool for fast, accurate checking of cables, wiring and network service. Operated using a back-lit touch screen display, the Pro not only tests wiring continuity and proper pair allocation, but measures the length of cables and determines if network service is available.

FEATURES
• Verifies the Integrity of Both Twisted Pair and Coaxial Telecom Cable
• Test Wiring Continuity and Check for the Correct Allocation of Wire Pairs
• Fast, Accurate Checking of Cables, Wiring, and Network Service
• Measures the Length of Cables and Determines if Network Service is Available

PART #	DESCRIPTION	PRICE
NC-100	NETcat Micro Digital Voice and Video Wiring Tester	$94.00
NC-500	NETcat Pro Digital VDV Wiring Troubleshooter	289.00

GREENLEE CABLESCOUT® AND TELSCOUT® COPPER TDR

Tempo TelScout® TS90 Cable Fault Locator is designed for ease-of-use. You'll spend less time operating the TDR and more time repairing faults. Simply select the cable type to be tested and the TS90 does the rest. Impedance, Vp, gain, pulse width and vertical position are automatically selected and adjusted as you scan the cable. Just move the cursor to the fault to pinpoint its location. The TV220 delivers high performance, yet is so easy to use that little or no training is required. This leading edge TDR can test more system bandwidth and expose faults that have been previously invisible to TDR yet still an impairment to digital signals. The TV220 also introduces one-button testing.

FEATURES
• Copper TDR Designed for CATV Applications
• Ideal Choice for Digital Broadband Coax (TV220)
• Designed for Telephone Twisted Pair Applications (TS90) + (TS100)
• All Units Include Test Leads or Cables, Carry Case and Rechargeable Batteries

PART #	DESCRIPTION	PRICE
TV90	CableScout® TV90, 6 & 12ns pulse widths	$1,405.00
TV220	CableScout® TV220, dual trace, 1, 5 & 25ns pulse widths, trace storage/download	3,699.00
TS90	TelScout® TS90, 5 to 2500ns pulse widths	1,455.00
TS100-01	TelScout® TS100, 5 to 3000ns pulse widths, trace storage/download	2,700.00

33-100

NT1150

NC-500

TV220

Copper

FLUKE DTX CABLE ANALYZERS

The DTX CableAnalyzer Series from Fluke Networks is the testing platform for today - and tomorrow. This revolutionary new future-proof platform significantly reduces total time to certify by improving every aspect of the testing process. The AC Wiremap feature validates twisted-pair cabling for Power over Ethernet services in accordance with TIA/EIA standards, even if a Midspan power supply is used.

FEATURES

• Exceeds Spec Requirements for Cat 5e/6/7 with Superior Level IV Accuracy

• 900 MHz Future-Proofs your Investment for Future Applications such as 10
  Gigabit Ethernet, Class F and CATV

• Resident Fiber Modules let you Switch Between Copper and Fiber

PART #	DESCRIPTION	PRICE
DTX-1800120	Cable Analyzer	$9,115.00
DTX-10GKIT	Alien Crosstalk Analyzer Kit for DTX-1800 (Certify cabling for 10Gb/sec Ethernet deployments)	2,865.00
DTX-1800-MS120	Cable Analyzer (w/Copper & Fiber Certification Modules)	19,085.00
DTX-1800-MSO120	DTX-1800 Copper/Fiber OTDR Kit	33,207.00
DTX-OTDR-KIT	DTX OTDR Kit	12,314.00

DTX-1800

JDSU CERTIFIER40G CABLE CERTIFIER

This next-generation cable certifier maximizes installer productivity with the fastest testing time, saving 30 minutes each time 150 CAT-6A cables are tested. Certifier40G protects your investment with the most advanced tester that certifies beyond TIA-568 standards, with a 1600 MHz measurement frequency. It saves technician time by eliminating unnecessary walking between local and remote units.

FEATURES

• Large Touch Screen at both test ends

• Future proof 1600 MHz testing exceeding Level IV accuracy

• Fast CAT 6A/Class FA test of 9 seconds

• Fastest Tier I fiber certification of 8 seconds w/ optional integrated fiber & end face inspection

PART #	DESCRIPTION	PRICE
NGC-4500-FA-NA	Certifier40G Cat 6A Master & Remote unit Testing Kit	$8,800.00
NGC-4500-MM-NA	Certifier40G including 2 MM test adapters, reference cables, and mandrels	12,550.00
NGC-4500-MMSM-NA	Certifier40G Cat 6A Test Kit w/ MM & SM modules, including adapters & reference cables	18,495.00

MEGGER STRUCTURED CABLING TESTER(SCT)

The SCT Series is a range of high-performance testers for certifying and evaluating copper and fiber cabling installations. Designed for cable installers and network owners who need to certify the performance of high-speed cabling to today's industry standards and tomorrow's emerging standards, the SCT Series delivers unmatched performance and accuracy.

FEATURES

• Certifies Category 7, 6a, 6, and 5e Cabling

• Exceeds Level IV Accuracy

• 1 to 1,000 MHz Frequency Range

• Powerful Diagnostics Pinpoint the Distance to Link Disturbances on Each Measured Pair

• Low Operating Cost and Superior Reliability

PART #	DESCRIPTION	PRICE
SCT-1500	Tests up to 350MHz	$6,695.00
SCT-2000	Tests up to 1000MHz	7,295.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
SCT-MMA	Multimode Fiber Adapters (Set of 2)	$4,050.00
SCT-SMA	Singlemode Fiber Adapters (Set of 2)	5,200.00
SCT-AXT	SCT2000 Alien Crosstalk Adapter	1,575.00

1155-5000

TEMPO SIDEKICK FAULT TESTER

The Sidekick® Plus Advanced Cable Maintenance Test Set is a multifunction test tool that will improve any technician's testing and troubleshooting capabilities on twisted pair. It uses digital technology to combine VOM and loop current tests, longitudinal balance (Stress Test), transmission and noise, open locator, load coil detection, RFL and a powerful TDR into one easy-to-use test set. Test functions can be selected and used individually, or run automatically by using the innovative Auto-test.

FEATURES

• Patented Stress Test to Measure Audible Noise on a Pair

• The Leakage Test Also Detects Intermittent Resistance Faults Undetectable with a VOM Tester

• Features Transmission and Noise Testing and is Available with a Traditional Analog

PART #	DESCRIPTION	PRICE
1155-5000	Sidekick Plus advanced cable maintenance test set	$2,715.25
1143-5000	Sidekick VOC	782.75

Copper

FIBER INSTRUMENT SALES IS A MOLEX MASTER DISTRIBUTOR

What does being a Master Distributor mean to you?
- Quality Molex Products
- Large In-Stock Inventory
- Same-Day Shipping for Stocked Items
- Outstanding Technical Support
- Exceptional Personal Service
- One-Source Shopping
- Satisfaction Guaranteed!

WSY-00002-01   **WPJ-00010-01**

MOLEX

PART #	DESCRIPTION	PRICE
WPJ-00007-XX	Streamline Series 1 port Single Gang Wallplate	$1.05
WPJ-00008-XX	Streamline Series 2 port Single Gang Wallplate	1.05
WPJ-00009-XX	Streamline Series 3 port Single Gang Wallplate	1.05
WPJ-00010-XX	Streamline Series 4 port Single Gang Wallplate	1.05
WPJ-00012-XX	Streamline Series 6 port Single Gang Wallplate	1.30
WSY-00018-XX	Synergy 2 Port Wallplate	1.49
WSY-00002-XX	Synergy 4 Port Wallplate	1.49
WSY-00001-XX	Synergy 6 Port Wallplate	1.49
WSS-00001-XX	Stainless Steel 1 Port Wallplate	2.40
WSS-00002-XX	Stainless Steel 2 Port wallplate	2.40

(Note: When ordering, replace XX above with color: 01=almond, 02=white, 05=ivory)

LEVITON

PART #	DESCRIPTION	PRICE
42080-1XS	QuickPort Single Gang 1 port faceplate w/designation windows	$1.40
42080-2XS	QuickPort Single Gang 2 port faceplate w/designation windows	1.40
42080-3XS	QuickPort Single Gang 3 port faceplate w/designation windows	1.40
42080-4XS	QuickPort Single Gang 4 port faceplate w/designation windows	1.40
42080-6XS	QuickPort Single Gang 6 port faceplate w/designation windows	1.40
42080-6XP	QuickPort Double Gang 6 port faceplate w/designation windows	3.30
42080-8XP	QuickPort Double Gang 8 port faceplate w/designation windows	3.30
41087-2XP	QuickPort Duplex 106 insert (fits any standard NEMA duplex faceplate)	1.30
41087-QXP	QuickPort Quad 106 insert (fits any standard NEMA duplex faceplate)	1.85
49910-SX2	QuickPort Standard Modular Furniture 2 port faceplate w/ID windows	2.60
49910-SX4	QuickPort Standard Modular Furniture 4 port faceplate w/ID windows	2.60
4108W-1SP	QuickPort Stainless Steel Wallplate w/rivets for phone/VOIP	6.70
41089-1XP	QuickPort Surface Mount Housing 1 port	1.55
41089-2XP	QuickPort Surface Mount Housing 2 port	1.65
41089-4XP	QuickPort Surface Mount Housing 4 port	3.10
41089-6XP	QuickPort Surface Mount Housing 6 port	5.40
41089-12X	QuickPort Surface Mount Housing 12 port	9.55
42777-1XB	Single Gang Surface Mount Backboxes 1.45" deep	2.70
42777-2XB	Double Gang Surface Mount Backboxes 1.45" deep	5.85

(Note: When ordering, replace X above with color: I=ivory, W=white, G=gray,. E=black, (Note: Faceplates without designation windows available.)
(Note: 1.89" deep Backboxes also available)

SIGNAMAX

PART #	DESCRIPTION	PRICE
SKFL-1	1 port Single Gang Keystone Faceplate w/ Labeling Windows	90¢
SKFL-2	2 port Single Gang Keystone Faceplate w/ Labeling Windows	90¢
SKFL-3	3 port Single Gang Keystone Faceplate w/ Labeling Windows	90¢
SKFL-4	4 port Single Gang Keystone Faceplate w/ Labeling Windows	90¢
SKFL-6	6 port Single Gang Keystone Faceplate w/ Labeling Windows	90¢
SKFLA-2	2 port Angled Single Gang Keystone Faceplate w/Labeling Windows	95¢
SKFLA-4	4 port Angled Single Gang Keystone Faceplate w/Labeling Windows	95¢
DKFL-6	6 port Double Gang Keystone Faceplate w/Labeling Windows	$1.50
DKFL-12	12 port Double Gang Keystone Faceplate w/Labeling Windows	1.50
DKFLA-8	8 port Angled Double Gang Keystone Faceplate w/Labeling Windows	1.50
SMB1-SG	Single Gang Surface Mount Faceplate Box	1.97
SMB1-DG	Double Gang Surface Mount Faceplate Box	3.25
SMKL-1	1 port Surface Mount Multimedia Box	1.05
SMKL-2	2 port Surface Mount Multimedia Box	1.40
SMKL-4	4 port Surface Mount Multimedia Box	1.95

[Note: The standard color for all the above is light ivory. For other colors add the following to the p/n -BK (black), -GY (gray), -WH (white)] (Faceplates also available without labeling window option.)

41089-12E

SKFL-3   **DKFL-12**

1.800.5000.FIS(347)

MOLEX JACKS

FEATURES:

- DataGate jacks offer a patented "spring-loaded shutter" which protects it from dust and contaminants, as well as provides tactile feedback

- All jacks feature pointed IDC towers to speed termination and enhance cable retention

MSY-00018   **KSJ-00018**

PART #	DESCRIPTION	PRICE
KSJ-00018-XX*	DataGate Plus Cat 6 Jack 568A/B	$5.50
KSJ-00024-XX*	DataGate Plus Cat 5e Jack 568A/B	3.50
KSJ-00033-XX*	Keystone Jack Cat 6 568A/B	7.15
KSJ-00032-XX*	Keystone Jack Cat 5e 568A/B	4.45
KSJ-00005-0X**	Blank Single Position Module	75¢
MSY-00002-0X**	F Video Single Position Module	2.85
MSY-00032-0X**	S Video Single Position Module	7.75
MSY-00036-0X**	BNC Coupler Single Position Module	6.05
MSY-00018-0X**	Simplex SC SM/MM Fiber Module	5.50
MSY-00004-0X**	Simplex ST MM Fiber Module	3.65

*(Note: When ordering, replace XX above with color: 01=almond, 02=white, 04=black, 05=ivory, 08=gray, RD=red, BL=blue, GR=green, YL=yellow, RG=orange, PP=purple)
**(Note: When ordering, replace X above with color: 1=almond, 2=white, 4=black, 5=ivory,)

MSY00002-0X   **KSJ-00032**

LEVITON JACKS

FEATURES:

- QuickPort connectors fit all QuickPort wallplates, multimedia outlets, surface mount housings, modular furniture, patch panels, and mounting plates

- Choose from eXtreme 10G, eXtreme 6+, and Gigamax 5e category rated jacks

PART #	DESCRIPTION	PRICE
6110G-RX6	eXtreme 10G UTP QuickPort Jack	$11.75
61C0S-B13	Cone of Silence replacement pack (bag of 13 for above jack)	22.60
61110-RX6	eXtreme 6+ UTP QuickPort Jack	6.45
5G110-RX5	Gigamax 5e+ UTP QuickPort component rated jack	4.50
5G108-RX5	Gigamax 5e UTP QuickPort channel rated jack	3.65
41084-BXB	Blank Insert	15¢
41084-SXF	ST QuickPort Fiber Adapter SM/MM	7.60
41085-MXC	SC QuickPort Fiber Adapter MM	7.75
41085-MLX	LC QuickPort Fiber Adapter SM/MM	10.00
41084-BXF	BNC QuickPort Adapter	4.25
41084-FXF	F-type QuickPort Adapter	1.70
40734-SVX	S-Video Quickort Connector	6.65

(Note: When ordering, replace X above with color: I=ivory, W=white, G=gray, E=black, O=orange, C=red, Y=yellow, V=green, P=purple, A=almond)

41084-FXF   **5G108-RX5**

40734-SVX   **41085-MXC**

SIGNAMAX

FEATURES:

- Keystone jacks exceed all performance requirements as defined in TIA/EIA568-B

- Terminated with industry standard 110 or Krone tooling

- Ability to mount either color-coded icon tabs or dust covers

PART #	DESCRIPTION	PRICE
KJMT-8600	4 Pair Termination Tool for MT Series	$26.55
KJ458MT-C6A*	Cat 6A 10G MT Series Keystone Jack 568A/B Light Ivory	$5.99
KJS458TL-C6AC	Cat6A 10G Screened Keystone Jack 568A/B	7.32
KJ458MT-C6C	Cat6+ MT Series Keystone Jack 568A/B Light Ivory	3.86
KJ458MT-C5E*	Cat5E+ MT Series Keystone Jack 568A/B Light Ivory	2.33
KJ126MT-C3**	Cat3 Voice Grade MT Series Keystone Jack Light Ivory	1.85
CMK-BL**	Blank Keystone Module	20¢
CMK-F***	F-Type Keystone Connector Module	94¢
CMK-BNC***	BNC Keystone Connector Module	2.05
CMK-110SVHS**	SVGH to 110 Connector Module	2.20
CMK-ST**	ST MM/SM Fiber Connector Module	2.75
CMK-SC**	SC MM/SM Fiber Connector Module	2.98
CMK-LC**	LC MM/SM Fiber Connector Module	8.55

*[Note: When ordering, other than Light Ivory color, add the following to the p/n: -BK (black), -BU (blue), -GN (green), -GR (gray), -OR (orange), -RD (red), -WH (white), -YE (yellow)]

**[Note: When ordering, other than standard Light Ivory color, add following to the p/n: -WH (white)]

***[Note: When ordering, other than standard Light Ivory color, add following to the p/n: -BK (black), -WH (white), -GR (gray)]

KJ4MT-8600

NEW

KJ458MT

KJ458-C6C   **CMK-SC**

UNSHIELDED RJ-45 MODULAR PLUGS

FEATURES:

- Used for field termination of patch cords

- Designed for 24 AWG stranded or solid cable

- Strain relief boots sold separately

PART #	DESCRIPTION	PRICE
KRJ45/5-100	RJ-45 for 24AWG Stranded Cable - 100 Pack	$12.21
KRJ45/5SLD-100	RJ-45 for 24AWG Solid Cable - 100 Pack	18.30

RJ-45 Plug

PID-00157

PID-00076

KPD-00077

PID-00210

MOLEX

PART #	DESCRIPTION	PRICE
PID-00210	PowerCat 1U 24 Port Keystone Patch Panel, Unloaded	$53.00
PID-00076	PowerCat 1U 24 Port Multimedia Patch Panel, Unloaded	49.00
PID-00141	PowerCat Cat 6 24 port 1U	125.00
PID-00142	PowerCat Cat 6 48 port 2U	230.00
PID-00156	PowerCat Cat 6 24 port angled 1U	150.00
PID-00157	PowerCat Cat 6 48 port angled 2U	305.00
PID-00174	Datagate Plus Cat 5e 24 port 1U	98.00
PID-00175	Datagate Plus Cat 5e 48 port 2U	188.00
PID-00154	Datagate Plus Cat 5e 24 port angled 1U	117.00
PID-00155	Datagate Plus Cat 5e 48 port angled 2U	215.00
KPD-00077	Cat 5e 12 port Wall Mount 12 port (w/89D bracket)	46.50
25B013G	2U Ring Run Panel	30.00
25B016G	1U Ring Run Panel	25.00
25B035G	1U Deep Ring Run Panel	35.00
25B044G	2U Ring Run Panel with Cover (not shown)	34.00

5G596-U89

5G596-U48

69586-U48

LEVITON

PART #	DESCRIPTION	PRICE
69586-U24	eXtreme 6+ 24 port Pre-configured	$171.65
69586-U48	eXtreme 6+ 48 port Pre-configured	325.10
5G596-U89	Cat 5E Gigamax Wall Mount 12port (w/89D bracket)	72.10
5G596-U24	Cat 5E Gigamax 24 port Pre-configured	112.45
5G596-U48	Cat 5E Gigamax 48 port Pre-confugured	224.90
5G270-U24	QuickPort 5E 24 port preloaded 1U	128.00

12458M-C5E

48458MD-C5E

24458MD-C6C

SIGNAMAX

PART #	DESCRIPTION	PRICE
24458-C6A	Cat 6A 10Gig 1U	$155.00
48458-C6A	Cat 6A 10Gig 2U	298.00
12458MD-C6C	Cat 6+ 12 port 1U	67.00
24458MD-C6C	Cat 6+ 24 port 1U	106.65
48458MD-C6C	Cat 6+ 48 port 2U	186.00
24458MD-C5E	Cat 5e+ 24 port 1U	65.10
48458MD-C5E	Cat 5e+ 48 port 2U	119.00
12458M-C5E	Cat 5e + 12 port Mini Wall Mount	44.00
24UHDMMP	24 Port Unloaded Patchpanel Accepts Keystone Jacks	31.00
48UHDMMP	48 Port Unloaded Patchpanel Accepts Keystone Jacks	43.40

ACTIVE NETWORK

CABLE MONITOR

Fiber-Safe is a compact affordable network cable monitor that notifies of a problem with the installed cable. Intended for use with multi-fiber cables in a large LAN system, simply plug two spare fibers into the control unit and technicians will be notified if a problem arises with the installed network cable. Utilizing a loop back in the fiber cable our control unit monitors a power level within the cable and if attenuation increases or a break occurs the control unit has relay outputs that easily integrates with alarms or auto dialers. Be aware of a potential network problem before getting a phone call from terminal users, this attractive monitor provides technicians with a quicker route to solving a network problem.

S-FS1310   **1310nm Fiber Cable Monitor**   **Price: $995.00**

FIS BRIDGE MEDIA CONVERTERS

These Ethernet Media Converters meet IEEE Standards and are 10/100Base-TX and 100Base-FX with MDI/MDI-X auto negotiation. Full set of LED Indicators and 10/100Mbps and full/half duplex automatically configured in twisted pair port. Multimode converters have a range of 2km and Singlemode converter has a range of 20km. External power supply included.

PART #	DESCRIPTION	PRICE
F1-OEC32M1-2	10/100 Base-T/TX to 100 Base-FX MM/SC Converter	$89.00
F1-OEC32M2-2	10/100 Base-T/TX to 100 Base-FX MM/ST Converter	89.00
F1-OEC32S1-202	10/100 Base-T/TX to 100 Base-FX SM/SC Converter	120.00

F1-OEC32M2-2

SIGNAMAX MEDIA CONVERTERS

Signamax Connectivity Systems Switching Media Converters provide intelligent solutions for long distance connections between legacy copper networks and new fiber based installations. Extended distance singlemode, as well as Gigabit versions are also available. Use the same converters for either wall or chassis mount. Lifetime warranty.

PART #	DESCRIPTION	DISTANCE	PRICE
065-1100	10/100 Base-T/TX to 100 Base-FX, MM/ST (w/ link fault signaling)	2km	$107.00
065-1110	10/100 Base-T/TX to 100 Base-FX, MM/SC (w/ link fault signaling)	2km	107.00
065-1100LFS	10/100 Base- T/TX to 100 Base-FX, MM/ST with USB Power Option	2km	126.00
065-1110LFS	10/100 Base-T/TX to 100 Base-FX MM/SC with USB Power Option	2km	131.00
065-1120	10/100 Base-T/TX to 100 Base-FX, SM/SC (w/ link fault signaling)	15km	265.00
065-1120ED	10/100 Base-T/TX to 100 Base-FX, SM/SC (w/ link fault signaling)	40km	405.00
065-1174	10/100 Base-T/TX to 100 Base FX MM/LC (w/ link fault signaling)	2km	173.00
065-1130	100 Base-FX, SM/SC to 100 Base-FX MM/ST	15km SM / 2km MM	432.00
065-1132	100 Base-FX, SM/SC to 100 Base-FX MM/SC	15km SM / 2km MM	432.00
065-1132ED	100 Base-FX, SM/SC to 100 Base-FX MM/SC	40km SM / 2km MM	556.00
065-1063FSC	RS-232/422/485 to 100 Base-FX, MM/SC, Stand alone only no rack mount	2km	434.00
065-1063FST	RS-232/422/485 to 100 Base-FX, MM/ST, Stand alone only no rack mount	2km	434.00
065-1196	10/100/1000 Base-T/TX to 1000 Base-FX, MM/SC Switching	220m (62.5) / 550m (50)	519.00
065-1096	10/100/1000 Base TX to 1000 Base SFP Media Converter	See SFP Modules, Pg. 160	434.00
065-1195	1000 Base-TX to 1000 Base-SX MM/SC Gigabit Converter	220m (62.5) / 550m (50)	291.50
065-1194	1000 Base-LX SM/SC to 1000 Base-SX MM/SC Gigabit Converter	10km SM / 220m (62.5) / 550m (50)	868.00
065-1197	1000 BaseT to 1000 Base LX SM/SC (w/ link fault signaling)	10km	496.00
065-1200ST00	12-Channel Media Converter 10/100 Base-T/TX to 100 Base FX ST/MM	2km	1,264.00
065-1200SC95	12-Channel Media Converter 1000 Base TX to 1000 Base SX SC/MM	220m(62.5) / 550m (50)	2,914.00

065-1110

GARRETTCOM MAGNUM MEDIA CONVERTERS - YELLOW LABEL

GarrettCom offers a full line of Converter Switches. These Converters have two 10/100 RJ-45 ports with a wide variety of fiber offerings. They are also available in AC and DC models with 12, 24 and 48 VDC versions available. They are all DIN Rail Mountable with the purchase of a DIN Rail Mounting Kit. They are also available in three levels of ruggedness. The Yellow Label or Standard version is designed for the office and wiring closet. Please contact your FIS Representative for part numbers and pricing on any units you do not see listed.

PART #	DESCRIPTION	PRICE
CS14SC	Converter Switch with One 100Base-FX SC/MM and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	$168.00
CS14ST	Converter Switch with One 100Base-FX ST/MM and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	168.00
CS14SSC	Converter Switch with One 100Base-FX SC/SM (15km) and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	435.00
CS14SSCL	Converter Switch with One 100Base-FX SC/SM (40km) and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	695.00

CS Series Converters

FIS MEDIA CONVERTER RACK

FIS Media Converter Rack, MCR-1400 is designed to accommodate fourteen separate and independent media converters within a rack-mountable chassis. The rack is fitted with two switching power supplies for enhanced reliability. This means that if one supply should fail, the other is capable of taking over immediately. The MCR-1400 can also be installed in a standard 19-inch site rack; provision has been made for the appropriate connecting brackets.

PART #	DESCRIPTION	PRICE
MCR-1400	Media Converter Rack Mount with redundant power (Not Pictured)	$207.00

GARRETTCOM RACK MOUNT TRAY FOR MEDIA CONVERTERS

Rack-mount (19 inch RETMA) tray, rugged metal construction. Holds any combination of 10Mb, 100Mb, Gb. Fits Magnum converter switches, convenient switches, edge switches and media converters.

PART #	DESCRIPTION	PRICE
MC14TRAY	Rackmount Tray for 16 Converter Switches	$140.00

SIGNAMAX RACK MOUNT MEDIA CONVERTER CHASSIS

The Signamax 16-Bay Rack Mount Media Converter Chassis provides higher rack mount media converter density for large installations that can accommodate rear access to the chassis for power supply maintenance; space for all 065-11xx series Signamax media converters in a standard two rack unit high enclosure.

PART #	DESCRIPTION	PRICE
065-1185	16 Bay Rack Mount Media Converter Chassis	$450.00

Active Network

156

SIGNAMAX DIN-RAIL INDUSTRIAL HARDENED MEDIA CONVERTERS

Signamax Din-Rail Industrial Hardened Media Converters have been developed to operate in harsh industrial environments that require ruggedized equipment that can operate in severe temperature extremes. These media converters are an affordable solution for outdoor environments, transportation roadside systems, shop floors, and other harsh environments where consistent operation at temperature extremes of -40°F to 176°F (-40°C to 80°C) is necessary.

(Meets NEMA TS1 Environmental Requirements for Traffic Control Equipment)

PART #	DESCRIPTION	PRICE
065-1800TB	10/100BaseT/TX to 100BaseFX, ST MM, 2 km, 24 V DC Redundant Power Terminal Block	$310.00
065-1810TB	10/100BaseT/TX to 100BaseFX, SC MM, 2 km, 24 V DC Redundant Power Terminal Block	310.00
065-1820TB	10/100BaseT/TX to 100BaseFX, SC SM, 15 km, 24 V DC Redundant Power Terminal Block	484.00
065-1820EDTB	10/100BaseT/TX to 100BaseFX, SC SM, 40 km, 24 V DC Redundant Power Terminal Block	645.00
065-1820XLDTB	10/100BaseT/TX to 100BaseFX,SC SM, 75 km Span, 24 V DC Redundant Power Terminal Block	1,066.50
DC-1824-30W	24 Volt DC Power Supply 30 Watt AC or DC Input 60, 75, 125 Watt models also available	77.50

065-1800TB

Perfect for Wind Farms & Coal Mines

GARRETTCOM MAGNUM MEDIA CONVERTERS - ORANGE & RED LABEL

These Converters have two 10/100 RJ-45 ports with a wide variety of fiber offerings. They are also available in AC and DC models with 12, 24 and 48 VDC versions available. They are all DIN Rail Mountable with the purchase of a DIN Rail Mounting Kit. They are also available in three levels of ruggedness. The Orange Label or Hardened units are designed for factory floor applications, and the Red Label or Premium versions are rated for uncontrolled temperature applications, typically outdoors. Please contact your FIS Representative for part numbers and pricing on any units you do not see listed.

PART #	DESCRIPTION	PRICE
CS14HSTHD	Hardened Converter Switch w/ One 100Base-FX ST/MM & Two 10/100 RJ-45 Ports ORANGE Label (Industrial Rated)	$386.95
CS14HSCHD	Hardened Converter Switch w/ One 100Base-FX SC/MM & Two 10/100 RJ-45 Ports ORANGE Label (Industrial Rated)	386.95
CS14HSSCHD	Hardened Converter Switch w/ One 100Base-FX SC/SM & Two 10/100 RJ-45 Ports ORANGE Label (Industrial Rated)	826.95
CSG14PSXPD	Hardened Converter Switch w/ One 1000Base-SX SC/MM & Two 10/100/1000 RJ-45 Ports ORANGE Label (Industrial Rated)	606.95
CS14PSTPD	Premium Converter Switch w/ One 100Base-FX ST/MM and Two 10/100 RJ-45 Ports RED Label (Outdoor Rated)	533.50
CS14PSCPD	Premium Converter Switch w/ One 100Base-FX SC/MM and Two 10/100 RJ-45 Ports RED Label (Outdoor Rated)	533.50
CS14PSSCPD	Premium Converter Switch w/ One 100Base-FX SC/SM and Two 10/100 RJ-45 Ports RED Label (Outdoor Rated)	973.95
CSG14HSXHD	Premium Converter Switch w/ One 1000Base-SX SC/MM and Two 10/100/1000 RJ-45 Ports RED Label (Outdoor Rated)	753.50

CS Series Converters

The Top Ten
Questions to Ask When Choosing a Switch

When choosing a switch, the following questions can help you make the right purchase decision. After reviewing these questions our sales staff can provide further guidance in making the right purchase.

1) How many devices will I be using in my application?
Determining the number of computers, printers, and other network devices that will be connected to the switch is critical. Most mid-level switches have 24 ports and, if necessary, can be stacked to provide further network flexibility.

2) What is the speed at which I need my network to perform?
Does the switch require 100Mbps ports or 1Gbps ports? A lot depends on the cabling used as well as the device Network Interface Card (NIC). If network applications include video, voice or high resolution digital images, a Gigabit Ethernet switch may be preferred. Larger networks and/or specialized high-bandwidth applications such as medical imaging may require 10 Gigabit ports.

3) What is my network cabling structure?
If you are upgrading a network, the existing cabling infrastructure pretty much dictates cable type, network speed, switch interconnections (port counts) and so forth. If you are purchasing switches for a new network, this information isn't so apparent. Review the blueprints with the network designer and ask for written specifications for each switch to eliminate uncertainty.

4) How long is the cabling that will be connected to the switch?
For links that exceed the transmission distance of copper, you can use switches that have built-in fiber ports. This will enable you to use fiber optic cabling to achieve the transmission distances required.

100 meters is the maximum distance that copper cable can be run under the 10/100/1000baseTX standard. This represents 90 meters of cabling in the horizontal run plus two five-meter patchcords for connecting equipment at each end of the run. The standard does not allow "tradeoffs." For example, if you have a 40-meter horizontal run (50 meters less than the maximum length), you cannot add the "unused" meters to extend the maximum allowable length of the patchcords.

5) Do I need flexible control of the network's operation?
While an inexpensive unmanaged switch might "work" in terms of data throughput, it doesn't provide much in terms of functionality. A managed switch provides more control over the network in terms of security, performance and traffic management.

6) Do my network devices require Power over Ethernet?
Supplying electrical power through LAN cabling can save on power extension costs for such devices as IP security cameras, IP phones and wireless access points (WAP) devices.

7) How will I mount the switch?
Switches are available for rack mount, din-rail, stackable, and desktop installation.

8) What is my budget?
It's always a good idea to install a switch that has extra capacity for future network expansion. However, IT managers have budgets, so price must be taken into consideration.

9) What are the future plans for expansion in the network?
Ask some open-ended questions regarding user needs and expectations. It is surprising how much you can learn by expanding your checklist beyond "yes and no" questions.

10) Is this my network?
Remember, if you are not the manager of the network you are installing be sure that the user, customer, and network manager are in agreement with all of your answers to these questions. There are many ways to use these devices to meet network demands. By asking these questions you can save a lot of aggravation and you'll be better able to meet users' expectations.

Active Network

FIS THREE-PORT MINI SWITCHES

FIS mini-switches provide a simple and inexpensive way to add additional computers to a network. The 3-port Mini Switch has (2) 100Mbs fiber ports and (1) 10/100Mbs twisted pair copper port. Meets IEEE 802.3, 802.3u and 802.3X Standards. This switch provides Media conversion for TP and fiber optic media types and extends network spans and has 10/100Mbps, auto-negotiation on the twisted pair port. External power supply included.

PART #	DESCRIPTION	PRICE
F1-SWMM1	3-Port Mini Switch with (2) 100Base-FX MM/SC and One 10/100Base-T/TX Port	$165.00
F1-SWSM1	3-Port Mini Switch with (2) 100Base-FX SM/SC and One 10/100Base-T/TX Port	265.00

F1-SWMM1

FIS EIGHT-PORT DESKTOP SWITCHES

An inexpensive way to connect remote LAN devices using existing fiber backbone. FIS has 8-port Desktop Switches with one fiber port in each. The 8-port switch has (1)100Base-FX and (7) 10/100Base-T/TX ports. Multimode units support up to 2km and Singlemode up to 20km. External power supply included.

PART #	DESCRIPTION	PRICE
F1-JC08A-MS	8-Port Switch with 1 MM/SC Fiber Port and (7) 10/100 Twisted Pair Ports	$122.00
F1-JC08A-MT	8-Port Switch with 1 MM/ST Fiber Port and (7) 10/100 Twisted Pair Ports	122.00
F1-JC08A-S2	8-Port Switch with 1 SM/SC Fiber Port and (7) 10/100 Twisted Pair Ports	215.00

FIS 8-Port Mini Switches

SIGNAMAX UNMANAGED MINI DESKTOP SWITCHES

These desktop switches make it easy to increase user capacity and provide ethernet to devices in a small work group. State-of-the-art switches provide a straightforward upgrade from standard or fast ethernet, using your existing investment in hardware.

PART #	DESCRIPTION	PRICE
065-7007A	5-port 10/100 Unmanaged Desktop Switch	$25.00
065-7012	8-port 10/100 Unmanaged Desktop Switch	29.90
065-7331A	16-port 10/100 Base T/TX Unmanaged Desktop Switch	93.00
065-7341A	24-port 10/100 Base T/TX Unmanaged Desktop Switch	137.00

065-7012

SIGNAMAX UNMANAGED DESKTOP FIBER ACCESS SWITCHES

Signamax Desktop Fiber Access Switches are compact and provide (7) 10/100BaseT/TX auto NDIX ports and (1) 100BaseFX port. Also available in ST and LC Multimode. Available in Singlemode versions as well.

PART #	DESCRIPTION	PRICE
065-7111SC	(7) 10/100BaseT/TX and (1) 100BaseFX Multimode SC Ports	$149.00
065-7111ST	(7) 10/100BaseT/TX and (1) 100BaseFX Multimode ST Ports	149.00
065-7111SM	(7) 10/100BaseT/TX and (1) 100BaseFX Singlemode SC Ports	278.66

065-7111SM

SIGNAMAX UNMANAGED POWER OVER ETHERNET SWITCHES

This new 8-Port 10/100BaseT/TX Power over Ethernet (PoE) Full-Power switch provides the capability to remotely power up to eight wireless access points, VoIP telephones, Powered Device (PD) media converters, and other devices that meet the IEEE 802.1af PoE standard.

PART #	DESCRIPTION	PRICE
065-7308POE-FP	8 Port 10/100 Base T/TX Unmanaged Full Power Switch w/ 8 PoE Ports	$253.00
065-7308POE-FPRM	Rack Mount Kit for 065-7308POE	13.00

065-7308POE-FP

GARRETTCOM UNMANAGED MAGNUM EDGE SWITCH - YELLOW LABEL

The Magnum Edge Switch series has a 2 fiber port version also has (4) 10/100 twisted pair ports and the single fiber port versions have (5) 10/100 twisted pair ports. The units can be used in self-healing redundant LANs, with two sets of LEDs for viewing from any direction.

PART #	DESCRIPTION	PRICE
ES42-2SC	6 Port Switch, 2 MM/SC Fiber 100Mbps Ports and (4) 10/100Mbps Ports Office Rated	$329.00
ES42-2SSC	6 Port Switch, 2 SM/SC Fiber 100Mbps Ports and (4) 10/100Mbps Ports Office Rated	606.00

ES42 Edge Switch

SIGNAMAX MANAGED FIBER ETHERNET ACCESS SWITCHES

The Signamax managed fiber switches are the most cost effective way to extend fiber to the desktop from a gigabit Ethernet fiber backbone. These switches are available with two 1000BaseFX ports for Singlemode or Multimode fiber. SNMP, web-browser, local terminal connection and Telnet remote terminal management capabilities are included.

PART #	DESCRIPTION	PRICE
065-7732AFSC	24-Port 100BaseFX MM/SC + 2-Port 1000BaseSX MM/SC	$3,410.00
065-7732AFSM	24-Port 100BaseFX SM/SC + 2-Port 1000BaseLX SM/SC	8,868.00

065-7732AFSC

SIGNAMAX MANAGED AND WEBSMART ETHERNET SWITCHES

These switches provide non-blocking performance for 24 10/100 and 24 10/100/1000 Gigabit Ethernet connections, modern QoS and tagged VLAN capabilities, and full SNMP management at a surprising low cost. Two dual media Gigabit Ethernet ports use auto-detected Small Form-Factor Pluggable (SFP) modules for fiber optic switch interconnection at extended distances.

PART #	DESCRIPTION	PRICE
065-7940CWS	24 Port 10/100/1000 Base T/TX Websmart Switch + 4 SFP Ports	$434.00
065-7726S	24 Port 10/100 Base T/TX Managed Stackable Switch + 2 SFP/RJ-45 Dual Media Ports	434.00
065-7841	24 Port 10/100/1000 Base T/TX Managed Stackable Switch + 4 SFP Dual Media Ports	815.00

065-7841

SIGNAMAX MANAGED POWER OVER ETHERNET SWITCHES

This new stackable managed power over ethernet (PoE) switch provides the capability to remotely power wireless access points, VoIP telephones, powered device media converters and other devices that meet the IEEE 802.1af PoE standard. Available in 24 port 10/100 Base T/TX, accepts 2 - 1000 Base SFP module.

PART #	DESCRIPTION	PRICE
065-7726SPOE	24 Port 10/100 Base T/TX Managed POE Switch + 2 SFP/RJ45 Dual Media Ports	$920.00
065-7726SPOE-FP	24 Port 10/100 Base T/TX Managed Full Power Switch + 2 SFP/RJ45 Dual Media Ports	1,366.00

065-7726SPOE

SIGNAMAX UNMANAGED HARDENED INDUSTRIAL SWITCHES

SIGNAMAX

Signamax's 5, 8, & 9 Port Hardened Industrial DIN-rail Mount Switches have been developed to operate in harsh industrial environments that require ruggedized equipment that can operate in severe temperature extremes. These switches are an affordable solution for outdoor environments, transportation roadside systems, shop floors, and other harsh environments where consistent operation at temperature extremes of -40°F to 167°F (-40°C to 75°C) is necessary. (Meets NEMA TS1 and TS2 Environmental Requirements for Traffic Control Equipment)

PART #	DESCRIPTION	PRICE
065-7405TB	5 10/100BaseT/TX ports, 24 V DC Redundant Power Terminal Block	$248.00
065-7408ATB	8 10/100BaseT/TX ports, 24 V DC Redundant Power Terminal Block	269.00
065-74091FXSCTB	8 10/100BaseT/TX ports, + 1 100BaseFX SC Multimode port, 2 km Span	559.00
065-74091FXSTTB	8 10/100BaseT/TX ports, + 1 100BaseFX ST Multimode port, 2 km Span	559.00
065-7408PTB	8 10/100BaseT/TX ports (4 PoE), 48 V DC Redundant Power Terminal Block	609.00
065-7408P1FXSCTB	7 10/100BaseT/TX ports (4 PoE) + 1 100BaseFX SC Multimode port, 2 km span	912.00
065-7408P1FXSTTB	7 10/100BaseT/TX ports (4 PoE) + 1 100BaseFX ST Multimode port, 2 km span	912.00
065-7408P1FXSMTB	7 10/100BaseT/TX ports + 1 100BaseFX SC Singlemode port, 15 km span	1099.00

(Alternate fiber port configurations for the above are also available by special order.)

065-7408PTB   **065-7408P1FXSTTB**

GARRETTCOM UNMANAGED MAGNUM EDGE SWITCHES - ORANGE & RED LABEL

The Magnum Edge Switch series has a 2 fiber port version also has (4) 10/100 twisted pair ports and the single fiber port versions have (5) 10/100 twisted pair ports. The units can be used in self-healing redundant LANs, with two sets of LEDs for viewing from any direction. The Magnum ES series is available with 2 ratings, hardened for factory floors and premium for outdoor temperatures. Available in a large variety of connector styles, please contact your FIS representative for availability.

GarrettCom
Ethernet at its Best™

ES42 Edge Switch

PART #	DESCRIPTION	PRICE
ES42H-2SC-HD	6 Port Switch, 2 MM/SC Fiber 100Mbps Ports and (4) 10/100Mbps Ports Factory Hardened	$478.40
ES42P-2SC-HD	6 Port Switch, 2 MM/SC Fiber 100Mbps Ports and (4) 10/100Mbps Ports Outdoor Rated	508.00

GARRETTCOM UNMANAGED MAGNUM HARDENED ETHERNET CONVERTER SWITCHES

The new Magnum CSG14U Universal Hardened Converter Switch can handle any Gigabit fiber type - multimode and single-mode - and fiber media distance with a selection of 1 Gbps or 100 Mbps SFP fiber transceivers, up to two of which can be plugged in. For copper media attachment, there is a 10/100/1000 auto-negotiating RJ-45 port.

PART #	DESCRIPTION	PRICE
CSG14UH-HD	Hardened Gigabit Ethernet Converter Switch W/2 open SFP Transceiver ports & 1 triple 10/100/1000 RJ-45 Switch Port 115 VAC Power Supply	$479.00
CSG14UH-HI	Hardened Gigabit Ethernet Converter Switch W/2 open SFP Transceiver ports & 1 triple 10/100/1000 RJ-45 Switch Port 230 VAC Power Supply	479.00
CSG14UH-24VDC	Hardened Gigabit Ethernet Converter Switch W/2 open SFP Transceiver ports & 1 triple 10/100/1000 RJ-45 Switch Port 24 VDC Power Supply	499.50

SFPs Located on Page 160

SIGNAMAX MANAGED 12 PORT 10/100 BASE HARDENED SWITCH

This Hardened Managed Switch is designed to operate in rugged environments with extreme temperature conditions -40° F to 167° F (-40° C to 75° C).It is equipped with twelve 10/100 Base T/TX RJ45 ports and two Dual Media 10/100/1000 Base T/TX ports in a compact package with a variety of mounting options.

PART #	DESCRIPTION	PRICE
065-7714HSFPTB	12-Port 10/100 Hardened Managed Switch + 2 SFP/RJ-45 Gigabit Dual Media Ports	$849.00

(Optional Mounting Hardware Kits and Hardened SFP Gigabit Ethernet Modules Sold Separately.)

065-7714HSFPTB

GARRETTCOM MANAGED MAGNUM P62 INDUSTRIAL SERIES SWITCHES

Magnum P62 Industrial Series Switches are designed for environmentally challenging areas, indoors or outdoors. Available in both AC and DC (listed below) versions. DC power input 18-70 VDC auto-ranging. Call your FIS representative for a complete list of industrial switches.

PART #	DESCRIPTION	PRICE
P62-AC-NOF	Six 10/100Base-T/TX Port Switch	$771.00
P62F-AC-2MSC	Six 10/100Base-T/TX and Two 100Base-FX, MM/SC Port Switch	866.00
P62F-AC-1M1SSC	Six 10/100Base-T/TX, One 100Base-FX, MM/SC & One 100Base-FX, SM/SC Port Switch	1,269.00
P62F-AC-2SSC	Six 10/100Base-T/TX and Two 100Base-FX, SM/SC Port Switch	1,386.00

P62 Industrial Switches

GARRETTCOM MANAGED HEAVY DUTY MANAGED EDGE SWITCH

The Magnum 6KQ is a Heavy Duty Field Switch for industrial networking applications. The base unit has four 10/100 copper ports. It may be configured with a variety of 10/100/1000 Mb fiber and copper port connector types from a family of port modules. 16 ports maximum. Up to 2 Gb ports are optional.

PART #	DESCRIPTION	PRICE
6KQE-AC	Switch, base unit w/ 4 10/100 RJ-45 W/ up to 3-100 Mbps Fiber Ports or 4 more 10/100 RJ-45 100-240 VAC	$520.00
6KQE-24VDC	Switch, base unit w/ 4 10/100 RJ-45 W/ up to 3-100 Mbps Fiber Ports or 4 more 10/100 RJ-45 24 VDC	468.00
6KQE-48VDC	Switch, base unit w/ 4 10/100 RJ-45 PoE Ports w/ up to 3-100 Mbps Fiber Ports or 4 more 10/100 RJ-45 48 VDC	936.00

6KQE4 Series

GARRETTCOM MANAGED HEAVY DUTY EDGE SWITCH MODULES

PART #	DESCRIPTION	PRICE
6KQE4-RJ45	6KQE Module, adds 4-10/100 RJ-45 ports	$208.00
6KQE4-1MLC	6KQE Module adds 3-10/100 RJ-45 ports and 1 –MM 100 Mbps LC Fiber Port	312.00
6KQE4-2MLC	6KQE Module adds 2-10/100 RJ-45 ports and 2 –MM 100 Mbps LC Fiber Port	365.00
6KQE4-1SLC	6KQE Module adds 3-10/100 RJ-45 ports and 1–SM 100 Mbps 20 km LC Fiber Port	499.50
6KQE4-2SLC	6KQE Module adds 2-10/100 RJ-45 ports and 2–SM 100 Mbps 20 km LC Fiber Port	780.00
6KQE-1GSFP	6KQE Gig Module, 1-SFP open plugable ports for selectable SFP gig transceivers in each	312.00
6KQE-2GSFP	6KQE Gig Module, 2-SFP open plugable ports for selectable SFP gig transceivers in each	469.00

Active Network

SFP

The FIS small form-factor pluggable (SFP) is a compact, transceiver used for both telecommunication and standard data communications applications. FIS offers SFP with both 100Mbps and 1Gbps data transfer speeds, and are supplied with LC connector ports. The FIS SFP meets all current standards for industry performance.

PART #	DESCRIPTION	PRICE
F1-100MM2K	100Mbps, LC/MM, 850nm, 2km range	$56.00
F1-1000MM550	1Gbps, LC/MM, 850nm, 550 meter range	87.50

HARDENED SMALL FORM PLUGGABLE (SFP) GIGABIT FIBER MODULES

Signamax's Hardened Small Form-factor Pluggable (SFP) fiber modules come in an array of options supporting Gigabit Ethernet transmission over either multimode or singlemode fiber cable at distances up to 110 kilometers at temperature ranges of -40°C to 85°C. They adhere to the IEEE 802.3z standards for Gigabit Ethernet fiber connectivity, and are cost-effective methods of providing changeable Gigabit Ethernet fiber optic interfaces to switches and media converters equipped with a standard SFP slot.

PART #	DESCRIPTION	PRICE
065-79SXMG-H	1000BaseSX Hardened SFP Module - MM/LC, 850nm	$189.00
065-79LXMG-H	1000BaseLX Hardened SFP Module - SM/LC,10km, 1310nm	225.00

SMALL FORM PLUGGABLE (SFP) SINGLE FIBER MODULES BI-DIRECTIONAL

The Signamax 065-79LX1WDMx1550 series models are Small Form-factor Pluggable (SFP) singlemode fiber modules that support Gigabit Ethernet. The modules are designed facing each other across a single strand of singlemode fiber. They are a cost-effective method of providing changeable Gigabit Ethernet or SONET OC-12 single-fiber singlemode interfaces to switches and media converters equipped with a standard SFP slot.

PART #	DESCRIPTION	PRICE
065-79LX1WDMA1550	WDM 1.25 Gbps SFP Module Tx: 1310 nm / Rx: 1550 nm – SM/LC Simplex, 10 km	$250.00
065-79LX1WDMB1550	WDM 1.25 Gbps SFP Module Tx: 1550 nm / Rx: 1310 nm – SM/LC Simplex, 10 km	380.00
065-79LX2WDMA1550	WDM 1.25 Gbps SFP Module Tx: 1310 nm / Rx: 1550 nm – SM/LC Simplex, 20 km	300.00
065-79LX2WDMB1550	WDM 1.25 Gbps SFP Module Tx: 1550 nm / Rx: 1310 nm – SM/LC Simplex, 20 km	430.00
065-79LX4WDMA1550	WDM 1.25 Gbps SFP Module Tx: 1310 nm / Rx: 1550 nm – SM/LC Simplex, 40 km	645.00
065-79LX4WDMB1550	WDM 1.25 Gbps SFP Module Tx: 1550 nm / Rx: 1310 nm – SM/LC Simplex, 40 km	645.00
065-79LX6WDMA1550	WDM 1.25 Gbps SFP Module Tx: 1310 nm / Rx: 1550 nm – SM/LC Simplex, 60 km	705.00
065-79LX6WDMB1550	WDM 1.25 Gbps SFP Module Tx: 1550 nm / Rx: 1310 nm – SM/LC Simplex, 60 km	705.00

SMALL FORM-FACTOR PLUGGABLE (SFP) GIG ETHERNET FIBER MODULES

The GarrettCom SFP Modules come in singlemode or multimode and support Gigabit Ethernet transmission at distances up to 40km.

PART #	DESCRIPTION	PRICE
SFP-SX	1000Mbps SX, 550 M Distance, LC/MM 850nm	$125.00
SFP-ESX	1000Mbps Ext SX 2 km Distance, LC/MM 1310nm	219.00
SFP-LX10	1000Mbps LX, 10 km Distance, LC/SM 1310nm	208.00
SFP-LX25	1000Mbps LX, 25 km Distance, LC/SM 1310nm	572.00
SFP-ZX40	1000Mbps GX, 40 km Distance, LC/SM 1550nm	1,664.00

CROSS REFERENCE CHART FOR ACTIVE EQUIPMENT

Equipment Type	Transition Networks	Signamax	FIS
Media Converters			
10/100 Base-TX to 100 Base-FX MM ST	J/E-PSW-FX-02(ST)	065-1100	F1-OEC32M2-2
10/100 Base-TX to 100 Base-FX MM SC	J/E-PSW-FX-02(SC)	065-1110	F1-OEC32M1-2
10/100 Base-TX to 100 Base-FX SM SC	J/E-PSW-FX-02(SC-SM)	065-1120	F1-OEC32S1-202
100 Base-FX, SM to 100 Base-FX, MM	F-SM-MM-02	065-1132	N/A
Unmanaged Switches			
7-port 10/100 + 1-port 100 Base-FX MM SC	MIL-S501SC	065-7111SC	F1-JC08A-MS
7-port 10/100 + 1-port 100 Base-FX MM ST	MIL-S501ST	065-7111ST	F1-JC08A-MT
7-port 10/100 + 1-port 100 Base-FX SM SC	MIL-S501SC-15	065-7111SM	F1-JC08A-S2
Managed POE Switches			
24 Port 10/100 Base-TX + 2 SFP/RJ-45 ports	MIL-SM2401MAF	065-7726SPOE	N/A
Managed Switches			
24 port 10/100/1000 Base + Dual media SFP ports	MIL-SEM24T4GPA	065-7841	N/A

NOTE: Features may vary on all models, so desired functionality must be verified.

FIS FIBER OPTIC VIDEO TRANSMITTERS & RECEIVERS

- Electronic-to-photonic signal conversion
- NTSC/PAL signal
- Low-profile standalone devices
- No field adjustments required
- Transparent to cameras and monitoring equipment

Made In the USA

Fiber optic video transmitters and receivers include the ability to convert video signals from coaxial cameras so that they can be transmitted over fiber optic cable. These low-profile standalone devices can be placed anywhere needed. They require no field adjustments during installation or additional maintenance thereafter. These devices are designed to be transparent to cameras and monitoring equipment regardless of the manufacturer. The receiver includes an indicator light that provides quick verification of system status.

Fiber Optic Transmitter

FIS FIBER OPTIC VIDEO TRANSMITTERS

PART #	DESCRIPTION	FIBER MODE	MAX. DISTANCE	PRICE
S-850TX	Standalone Fiber Optic Video Transmitter	MM 850nm	4 Km	$95.00
S-1300TX	Standalone Fiber Optic Video Transmitter	MM 1300nm	8 Km	165.00
S-1310TX	Standalone Fiber Optic Video Transmitter	SM 1300nm	20 Km	220.00

FIS FIBER OPTIC VIDEO RECEIVERS

PART #	DESCRIPTION	FIBER MODE	PRICE
S-850RX	Standalone Fiber Optic Video Receiver	MM 850nm	$125.00
S-1300RX	Standalone Fiber Optic Video Receiver	SM/MM 1300nm	195.00

All include power supply

FIS FIBER OPTIC TRANSMITTER & RECEIVER KIT

Our single channel 850nm converter is designed to provide a high-performance, low-cost solution for the transmission of video circuits. Connects with ST style connectors.

PART #	DESCRIPTION	FIBER MODE	PRICE
S-MR-850-TR	FIS Standalone Fiber Optic Video Transmitter with Receiver and Power Supply	MM 850nm	$195.00

Fiber Optic Receiver

SILENT ALARM TRANSMITTERS & RECEIVERS

Our single channel 850nm converter is designed to provide a high performance, low cost solution for the transmission of Normally Open/Normally Closed contacts (NO/NC) over a single MM fiber. Alarm installers can now take a dry contact closure and wire it to our Fiber Optic transmitter and when the contact alarms it will convert that signal to light and send it to a receiver. This system allows for longer runs using pure light which can't be defeated by jumping.

PART #	DESCRIPTION	PRICE
S-850SATX	Silent Alarm TX w/power supply	$125.00
S-850SARX	Silent Alarm RX w/power supply	125.00

S-850SATX

Active Network

FIS TECH TIP

Transmission distance is no longer a problem for security installations, now that FIS offers equipment from American Fibertek. You can transmit and receive video signals over distances of up to 8km over multimode and 25km over a singlemode fiber. Equipment is available in single-channel or multi-channel, either as a standalone unit or rack mount. Contact your FIS Sales Representative to find the product best suited to your application. Includes Power Supply.

Multi-Channel System

Monitor 1 2 3 4 — Coax — RX — Fiber — TX — Coax — Cameras

Single Channel System

Monitor — Coax — RX — Fiber — TX — Coax — Camera

Silent Alarm System

Panic Button — TX — RX — AP — Dry Contacts — Alarm Panel — Power Supply
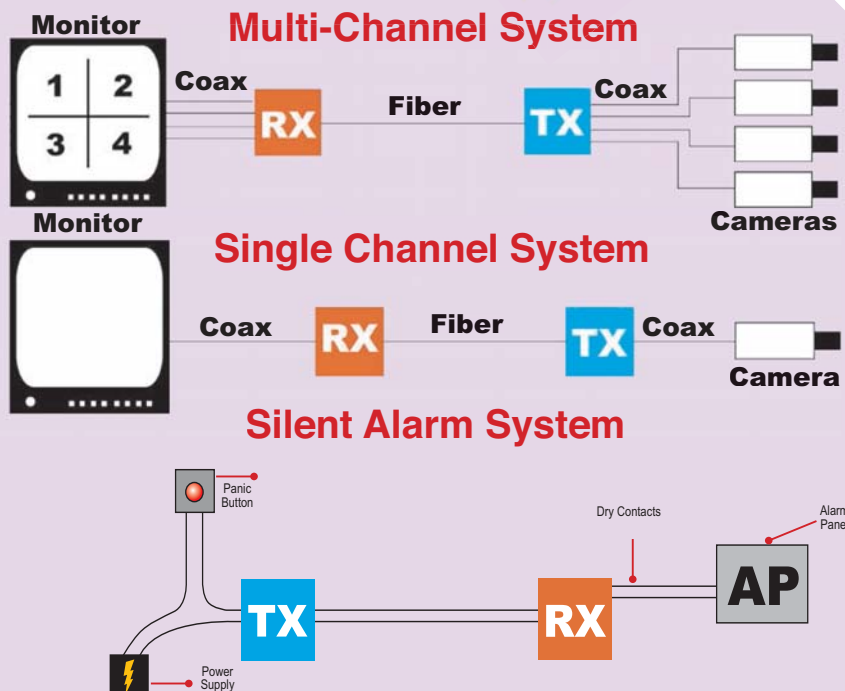
afi american fibertek

MT-81 & MR-81

MTV-480 & MRX-480

Used With COAX Cameras

COAX to Fiber (ST)

Used With COAX Cameras

COAX to Fiber (ST)

Used With PTZ Cameras

Single Channel

8-CHANNEL CONTACT CLOSURE

The American Fibertek 81 Series multiplexes 8 channels of dry latching contact closure on one multimode fiber. A user-selectable feature allows the contact status to be maintained unchanged or reset through power-cycle and loss-of-optical-power. Individual channel LEDs on the transmitter and the receiver units indicate the channel status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 AFI Card Cages.

PART #	DESCRIPTION	MODE	PRICE
S-MT-81	8-Channel Contact Closure with Fail Safe, TX	Multimode	$578.00
S-MR-81	8-Channel Contact Closure with Fail Safe, RX	Multimode	578.00

MULTI-PROTOCOL TRANSMISSION SYSTEM

The American Fibertek 480 Series transmits one channel of multi-protocol bi-directional data on one or two multimode optical fibers. The American Fibertek 480SL Series transmits one channel of multi-protocol bi-directional data on one singlemode optical fiber. The system is comprised of two transceivers forming a point-to-point communications link. Available switch selectable data formats include: RS485 (2 or 4 wire), RS422, RS232, and Manchester/Bosch. Equipment may be ordered as stand alone modules or rack cards.

PART #	DESCRIPTION	MODE	PRICE
S-MTX-480	Fiber Optic Data Transceiver (2 Fibers), TX	Multimode	$414.00
S-MRX-480	Fiber Optic Data Transceiver (2 Fibers) , RX	Multimode	414.00

SINGLE CHANNEL VIDEO TRANSMITTERS & RECEIVERS

The American Fibertek M1C and M100C Series transmit one channel of high quality, FM video on one multimode optical fiber. The American Fibertek M30C Series transmits three channels of high-quality, FM video on three multimode optical fibers. All units operate at 850 nm and are compatible across the series. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. The MTM-1C is a miniature transmitter that is designed to mount directly on the back of a video camera. The M100C Series may be ordered as stand alone low profile modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cage. The M30C Series are ordered as rack cards to be mounted in the SR-20D/2 or SR-20R/1.

PART #	DESCRIPTION	MODE	PRICE
S-MTM100	Single Channel Video Transmitter	Multimode	$180.00
S-MRM100	Single Channel Video Receiver	Multimode	180.00
S-MTM300S	Single Channel Video Transmitter	Singlemode	495.00
S-MRM300S	Single Channel Video Receiver	Singlemode	315.00
S-MT188	Single Channel Video/Audio Transmitter	Multimode	456.00
S-MR188	Single Channel Video/Audio Receiver	Multimode	456.00
S-MT388S	Single Channel Video/Audio Transmitter	Singlemode	985.00
S-MR388S	Single Channel Video/Audio Receiver	Singlemode	760.00

MULTI-CHANNEL VIDEO TRANSMITTERS & RECEIVERS

All multi-channel video series are designed to transmit 2, 4, 6 or 8 channels of high quality video on one Multimode or Singlemode optical fiber. These systems are designed to be completely transparent and require no field adjustments at installation.

PART #	DESCRIPTION	MODE	PRICE
S-MT220C	Two Channel FM Video Transmitter	Multimode	$675.00
S-MR220C	Two Channel FM Video Receiver	Multimode	675.00
S-MT404C	Four Channel FM Video Transmitter	Multimode	855.00
S-MR404C	Four Channel FM Video Receiver	Multimode	855.00
S-MT440CSL	Four Channel FM Video Transmitter	Singlemode	1,395.00
S-MR440CSL	Four Channel FM Video Receiver	Singlemode	1,395.00
S-MRT880C	Eight Channel FM Video Transmitter	Multimode	2,510.00
S-MRR880C	Eight Channel FM Video Receiver	Multimode	2,510.00

VIDEO & BI-DIRECTIONAL MULTI-PROTOCOL DATA TRANSCEIVERS

These low cost, low profile video and bi-directional data transceivers are designed to be completely transparent and require no field adjustment at installation. These systems support all RS422, RS485, and "up the coax" data requirements for complete camera and PTZ control. All units are available in 1, 2, 4, 6 or 8 channel models, in either Singlemode or Multimode and can be custom configured for your application.

PART #	DESCRIPTION	MODE	PRICE
S-MTM1485	Single Channel Transmitter w/video, RS485, RS422	Multimode	$655.00
S-MRM1485	Single Channel Receiver w/video, RS485, RS422	Multimode	655.00

Call Today for current pricing on Multi-Channel Units

AMERICAN FIBERTEK CARD CAGES

PART #	DESCRIPTION	PRICE
S-SR202	Standard Rackmount Card Cage 14 Slot Capacity with 1 Power Supply	$660.00
S-SR20R1	Redundant Rackmount Card Cage 11 Slot Capacity w/ Redundancy (2 Power Supplies)	1,300.00

SECURITY

COVER COP II

This unique non-electrical sensor avoids any spark that could produce an explosion in underground manholes from gases. This sensor is linked by a fiber optic cable through the network of manhole entrances in a campus environment and monitors if any cover is opened. An opened cover will cause the sensor to notify through the optical fiber cable a control unit in an equipment room alarming personnel of potential threat to network. The control unit has a preloaded map on the location of each sensor therefore notifying responders where problem exists. Once the cover is closed the system continues to monitor but alarm is still noted until removed or deleted from history. The Cover Cop II is a great solution for monitoring underground campus cable routes.

S-CCMAG2   **FIS Cover Cop Magnetic Sensor**   **Price: $195.00**

How it Works

A laser within the Central Control Unit injects light into the glass core of the fiber optic sensing cable that surrounds the perimeter. A would-be intruder who cuts or tugs the cable, or causes movement to the fence by climbing, will trigger the nearest MouseTrip sensor. Once triggered, the MouseTrip reduces the flow of light through the cable, which is detected by the system's Central Control Unit.

S-FF50

1000' Perimeter Systems Starting at $2,500

FIBER FENCE® 50 - Intrusion Detection System

Our compact and affordable Fiber Fence 50 Control Unit is designed to monitor a single security zone, although multiple units can be used together to monitor an unlimited number of zones. The control unit has relay outputs that easily integrate with alarms, strobe lights, auto dialer, etc. Now being used at power substations, military bases and other locations requiring extra perimeter protection. Can be used with MouseTrips for additional sensing capabilities.

FEATURES

- Exceptional Range
- No EMI Downtime
- Low Cost
- Safe for All Environments
- Fail-Safe Technology
- Uses MouseTrips Cover Cop Sensor

PART #	DESCRIPTION	PRICE
S-FF50	Fiber Fence 50 Control Unit	$995.00

FIS MOUSE TRIP®

MouseTrips® increase the overall sensitivity of Fiber Fence systems. Installed at intervals around a perimeter, MouseTrips detect movement of the sensing fiber or disturbance of the fence to which it is attached. When used in conjunction with the Fiber Fence 3000 system, the exact location of a triggered MouseTrip is shown on an on-screen map of the facility. MouseTrips install easily on existing fencing or walls and can be adjusted to virtually eliminate nuisance alarms.

FEATURES

- Signals Control Unit when Perimeter is Breached
- Custom Sensitivity Settings
- No Electrical Power Needed for Operation
- Used by U.S. Military & Municipalities Worldwide

WARNING PERIMETER MONITORED BY FIBER OPTIC SECURITY SYSTEM

S-FFMTR

PART #	DESCRIPTION	PRICE
S-FFMTR	FIS Mouse Trip	$69.00

COVER COP II
SECURITY SENSOR

COVER COP II SECURITY SENSOR

Each Sensor mounted under manhole cover

Splice Boxes

Cover Cops In Series

Singlemode 9/125µm Single Fiber Cable
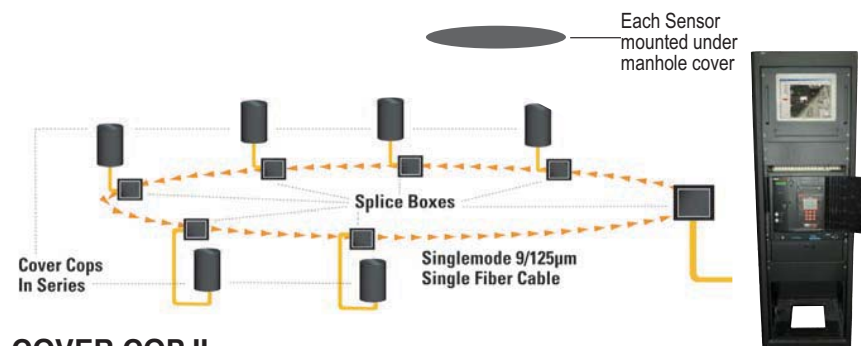
COVER COP II

FEATURES

- Signals Alert when Utility Cover is Opened
- Cover Cop II Sensor Locates Multiple Events
- Non-Electric Sensors Can't Spark Explosion
- Used by U.S. Military & Municipalities Worldwide

PART #	DESCRIPTION	PRICE
S-CCMAG2	Cover Cop II	$195.00

FIBER OPTIC ACCENT LIGHTING FROM FIS

FIS now offers accent lighting utilizing plastic optical fiber. Since it does not transmit ultraviolet or infrared, and does not conduct heat or electricity, this fiber can be used in special illumination projects like underwater, oil stock house, and museum illumination. Popular applications include swimming pools, fiber optic lamps, ceiling star layouts and resort paths. In addition to the listed fibers and cables below, FIS sells many other options and sizes.

STAR-TWINKLING EFFECT FIBER

Applications: used as wall lighting curtain and footpath of clubs, pubs, coffee houses and restaurants. Artistic drop lamp, moving lighting and waterfall curtain.

PART #	DESCRIPTION	PRICE
F1-SOF1000	Single-Core 0.75mm Fiber/1.0mm Transparent Jacket, 1.5km reel	$130.00
F1-SOF7503	Multi-Core 3-fiber 0.75mm Fibers/3.0mm Transparent Jacket, 900m reel	115.00

END-LIGHT EFFECT FIBER

Applications: can be an artistically nice choice for light decoration, light stars on ceiling, optical fiber drop lamp or optical fiber signs.

PART #	DESCRIPTION	PRICE
F1-EL1000	Singe 1.0mm Fiber, 1.5km reel	$118.00
F1-SEV1000	Single-Core 1.0mm Fiber/2.2mm Black Jacket, 1.5km reel	535.00
F1-MEV10004	Multi-Core 4-fiber 1.0mm Fibers/4.0mm Black Jacket, 1.0km reel	318.00
F1-MEV100025	Multi-Core 25-fiber 1.0mm Fibers/10.0mm Black Jacket, 1.0km reel	1,990.00
F1-MEV100042	Multi-Core 42-fiber 1.0mm Fibers/12.0mm Black Jacket, 100m reel	3,710.00

IN-FILLED SIDE LIGHT EFFECT FIBER

Applications: interior lighting decoration of homes, businesses, towers, hotels and restaurants. Artistic adornment in graphical and 3D artistic design. Lighting in swimming pools and underwater facilities. Jacket is UV resistant.

PART #	DESCRIPTION	PRICE
F1-ISLV2T	Single-Core 2.0mm Fiber/3.5mm Transparent Jacket, 500m reel	$490.00
F1-ISLV6T	Single-Core 6.0mm Fiber/8.8mm Transparent Jacket, 500m reel	2,470.00
F1-ISLV10T	Single-Core 8.0mm Fibers/10.0mm Transparent Jacket, 500m reel	4,680.00
F1-ISLV14T	Single-Core 12.0mm Fibers/14.0mm Transparent Jacket, 500m reel	5,450.00

TWISTED SIDE LIGHT EFFECT FIBER

Features more brightness and longer transmission distance than standard In-filled Side Light Effect Fiber by increasing fiber count. Softer and more bendable than standard In-filled Side Light Effect Fiber. Better resistance to cold and hot temperatures. Jacket is UV resistant.

PART #	DESCRIPTION	PRICE
F1-TSL75014	Multi-Core 14-fiber 0.75mm Fibers/6.0mm Transparent Jacket, 500m reel	$1,000.00
F1-TSL75042	Multi-Core 42-fiber 0.75mm Fibers/10.0mm Transparent Jacket, 500m reel	2,750.00
F1-TSL75084	Multi-Core 84-fiber 0.75mm Fibers/14.0mm Transparent Jacket, 500m reel	5,715.00
F1-TSL750126	Multi-Core 126-fiber 0.75mm Fibers/18.0mm Transparent Jacket, 500m reel	6,430.00

LIGHT ENGINE FOR ACCENT LIGHTING

There are several models to fit multiples applications. These Light Engines have the Accent Lighting fibers connected directly to them for control of the lighting. These are all 110-240v power so they can function anywhere. They are also CE approved. LED Lighted, 110-230v, Full Color Spectrum Mixing

PART #	DESCRIPTION	PRICE
F1-FK16WMF	16W Single Head Wireless Multicolor Sparkled Light Engine with Remote Control	$78.00
F1-FK16WSU	16W Single Head Wireless Synchronous Light Engine with Remote Control	88.00
F1-FK16DWS	16W Dual Head Wireless Synchronous Light Engine with Remote Control	120.00

HALOGEN LIGHTED, 230V

F1-FKH150S	150W Single Head Synchronous Light Engine, 8 colors	$230.00
F1-FKH250S	250W Single Head Synchronous Light Engine, 8 colors	470.00

HALOGEN LIGHTED, 230V, WATERPROOF, IP65 CERTIFIED

F1-FKH150SWP	150W Single Head Synchronous Light Engine, 8 colors	$300.00
F1-H250SWP	250W Single Head Synchronous Light Engine, 8 colors	530.00

DISTANCES AND ALLOWABLE ATTENUATION FOR FIBER OPTIC LINKS

Parameter		Multimode						Singlemode	
		62.5/125µm		50/125µm		850nm laser-optimized 50/125µm		TIA 492CAAA (OS1)	
		TIA 492AAAA (OM1)		TIA 492AAAB (OM2)		TIA 492AAAC (OM3)		TIA 492CAAB (OS2)	
Application	Nominal Wavelength (nm)	850	1,300	850	1,300	850	1,300	1,310	1,550
Ethernet 10/100BASE- SX	Channel attenuation (dB)	4.0	-	4.0	-	4.0	-	-	-
	Supportable distance m (ft.)	300 (984)	-	300 (984)	-	300 (984)	-	-	-
Ethernet 100BASE-FX	Channel attenuation (dB)	-	11.0	-	6.0	-	6.0	-	-
	Supportable distance m (ft.)	-	2,000 (6,850)	-	2,000 (6,850)	-	2,000 (6,850)	-	-
Ethernet 1000BASE-SX	Channel attenuation (dB)	2.6	-	3.6	-	4.5	-	-	-
	Supportable distance m (ft.)	275 (900)	-	550 (1,804)	-	800 (2,625)	-	-	-
Ethernet 1000BASE-LX	Channel attenuation (dB)	-	2.3	-	2.3	-	2.3	4.5	-
	Supportable distance m (ft.)	-	550 (1,804)	-	550 (1,804)	-	550 (1,804)	5000 (16,405)	-
Ethernet 10GBASE-S	Channel attenuation (dB)	2.4	-	2.3	-	2.6	-	-	-
	Supportable distance m (ft.)	33 (108)	-	82 (269)	-	300 (984)		-	-
Ethernet 10GBASE-LX4	Channel attenuation (dB)	-	2.5	-	2.0	-	2.0	6.3	-
	Supportable distance m (ft.)	-	300 (984)	-	300 (984)	-	300 (984)	10,000 (32,810)	-
Ethernet 10GBASE-L	Channel attenuation (dB)	-	-	-	-	-	-	6.2	-
	Supportable distance m (ft.)	-	-	-	-	-	-	10,000 (32,810)	-
Ethernet 10GBASE-LRM	Channel attenuation (dB)	-	1.9	-	1.9	-	1.9	-	-
	Supportable distance m (ft.)	-	270 (720)	-	270 (720)	-	270 (720)	-	-
Fiber Channel 100-MX-SN-I (1062 Mbaud)	Channel attenuation (dB)	3.0	-	3.9	-	4.6	-	-	-
	Supportable distance m (ft.)	300 (984)	-	500 (1,640)	-	880 (2,822)	-	-	-
Fiber Channel 100-SM-LC-L (1062 Mbaud)	Channel attenuation (dB)	-	-	-	-	-	-	7.8	-
	Supportable distance m (ft.)	-	-	-	-	-	-	10,000 (32,810)	-
Fiber Channel 200-SM-LC-L (2125 Mbaud)	Channel attenuation (dB)	2.1	-	2.6	-	3.3	-	-	-
	Supportable distance m (ft.)	150 (492)	-	300 (984)	-	500 (1,640)	-	-	-
Fiber Channel 200-SM-LC-L (2125 Mbaud)	Channel attenuation (dB)	-	-	-	-	-	-	7.8	-
	Supportable distance m (ft.)	-	-	-	-	-	-	10,000 (32,810)	-
Fiber Channel 400-MX-SN-I (4250 Mbaud)	Channel attenuation (dB)	1.8	-	2.1	-	2.5	-	-	-
	Supportable distance m (ft.)	70 (230)	-	150 (492)	-	270 (886)	-	-	-
Fiber Channel 400-SM-LC-L (4250 Mbaud)	Channel attenuation (dB)	-	-	-	-	-	-	7.8	-
	Supportable distance m (ft.)	-	-	-	-	-	-	10,000 (32,810)	-
Fiber Channel 1200-MX-SN-I (10512 Mbaud)	Channel attenuation (dB)	2.4	-	2.2	-	2.6	-	-	-
	Supportable distance m (ft.)	33 (108)	-	82 (269)	-	300 (984)	-	-	-
Fiber Channel 1200-SM-LL-L (10512 Mbaud)	Channel attenuation (dB)	-	-	-	-	-	-	6.0	-
	Supportable distance m (ft.)	-	-	-	-	-	-	10,000 (32,810)	-
FDDI PMD ANSI X3.166	Channel attenuation (dB)	-	11.0	-	6.0	-	6.0	-	-
	Supportable distance m (ft.)	-	2,000 (6,560)	-	2,000 (6,560)	-	2,000 (6,560)	-	-
FDDI SMF-PMD ANSI X3.184	Channel attenuation (dB)	-	-	-	-	-	-	10.0	-
	Supportable distance m (ft.)	-	-	-	-	-	-	10,000 (32,810)	-

Color Identification

Unless color coding is used for some other purpose, the connector strain relief and adapter housing should be identifiable by the following colors:

a) 850-nm laser-optimized 50/125 mm fiber – aqua
b) 50/125 mm fiber – black
c) 62.5/125 mm fiber – beige
d) Single-mode fiber – blue
e) Angled physical contact single-mode connectors – green

Fiber Optic Splices - Fusion or Mechanical

Maximum insertion loss 0.3 dB

• Minimum return loss:

  • Multimode: 20 dB
  • Single-mode: 26 dB
  • Single-mode: 55 dB (analog CATV)

Optical Fiber Connector (mated pair)

• Maximum insertion loss 0.75 dB

MAXIMUM DISTANCE OR TWISTED PAIR CABLING

APPLICATION	MEDIA	DISTANCE M (FT.)	NOTES
Ethernet 10BASE-T	Category 3, 5e, 6, 6A	100 (328)	
Ethernet 100BASE-TX	Category 5e, 6, 6A	100 (328)	
Ethernet 1000BASE-T	Category 5e, 6, 6A	100 (328)	
Ethernet 10GBASE-T	Category 6	100 (328)	
ASDL	Category 3, 5e, 6, 6A	5,000 (16,404)	1.5 Mbps to 9 Mbps
VDSL	Category 3, 5e, 6, 6A	5,000 (16,404)	1,500 m (4,900 ft.) for 12.9 Mbps; 300 m (1,000 ft.) for 52.8 Mbps
Analog Phone	Category 3, 5e, 6, 6A	800 (2,625)	
Fax	Category 3, 5e, 6, 6A	5,000 (16,404)	
ATM 25.6	Category 3, 5e, 6, 6A	100 (328)	
ATM 51.84	Category 3, 5e, 6, 6A	100 (328)	
ATM 155.52	Category 5e, 6, 6A	100 (328)	
ATM 1.2G	Category 6, 6A	100 (328)	
ISDN BRI	Category 3, 5e, 6, 6A	5,000 (16,404)	
ISDN PRI	Category 3, 5e, 6, 6A	5,000 (16,404)	

MINIMUM BEND RADIUS & MAXIMUM PULLING TENSION FOR FIBER OPTIC CABLE

Cable Type and Installation Details	Maximum Tensile Load During Installation	Minimum Bend Radii While Subjected To Maximum Tensile Load (During Installation)	No Tensile Load (After Instalation)
Inside Plant Cable with 2 or 4 Fibers Installed in Cabling Subsystem 1	220 N	2 inches	1 inch
Inside Plant Cable with more than 4 Fibers	Per Manufacturer		
Indoor/Outdoor Cable with up to 12 Fibers	1335 N		
Indoor/Outdoor Cable with more than 12 Fibers	2670 N	20x O.D.	10x O.D.
Outside Plant Cable	2670 N		
Drop Cable Installed by Pulling	1335 N		
Drop Cable Installed by Directly Buried, Trenched or Blown into Ducts	440 N		

TRANSMISSION PERFORMANCE FOR FIBER OPTIC CABLE

Optical Fiber and Cable Type	Wavelength (nm)	Maximum Attenuation (dB/Km)	Minimum Overfilled Modal Bandwidth (MHz•km)	Minimum Effective Modal Bandwidth (MHz•km)
62.5/125 μm Multimode (OM1)	850	3.5	200	Not Required
	1300	1.5	500	Not Required
50/125 μm Multimode (OM2)	850	3.5	200	Not Required
	1300	1.5	500	Not Required
850-nm Laser-Optimized 50/125 μm Multimode (OM3)	850	3.5	1,500	2,000
	1300	1.5	500	Not Required
Singlemode Indoor/Outdoor (OS1/OS2)	1310	0.05	N/A	N/A
	1550	0.05	N/A	N/A
Singlemode Indoor (OS1/OS2)	1310	1.00	N/A	N/A
	1550	1.00	N/A	N/A
Singlemode Outdoor (OS1/OS2)	1310	0.50	N/A	N/A
	1550	0.50	N/A	N/A

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FIS SATISFACTION GUARANTEED POLICY

If you are not 100% satisfied with your order, call toll-free to arrange for an exchange or return of goods. Any stock items contained in this catalog may be returned upon your prompt inspection of received goods.

• Any discrepancies with an order must be reported to FIS within 24 hours of receipt. • Returned Merchandise Authorization (RMA) numbers must be requested within 3 days of receipt of your product and returned to FIS head office within 7 days from receipt of goods. • All product returned must be marked with an FIS RMA number and be new and in unopened, full shipping unit quantities. Credit cannot be issued without an FIS authorized RMA. • Custom made and uncataloged items will not be accepted for return. • FIS reserves the right to charge a re-stocking fee.

Order Information: Minimum Order: $50.00. Terms: 30 days net. FOB: Oriskany, New York. Mastercard and Visa accepted. In all cases freight will be charged for all product shipped. Overdue accounts are subject to a 2% monthly finance charge. In case of price deviations, notification will be made prior to processing of your order. Photographs may not accurately portray present product. Specification sheets available on most catalog items. Quantity discounts available on all items upon request. First time orders for new accounts cannot be processed unless accompanied by a completed credit application. Please allow 3 working days for your application to be processed. TERMS: Net 30 days from date of invoice unless otherwise stated. IMPORTANT NOTICE: Prices subject to change without notice. All statements, technical information and recommendations related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use. Any statements of recommendations of the Seller which are not contained in the Seller's current publication shall have no force or effect unless contained in an agreement(s) signed by an authorized officer of Seller.

TERMS AND CONDITIONS

Warranty Overview

Fiber Instrument Sales Inc, hereafter referred to as FIS, warrants that a product will be free from defects in materials and workmanship and conforms to FIS Specifications. The warranty period for a product is a specified, fixed period commencing on the customer's date of purchase. A valid proof of purchase may be required. If the customer does not have a valid proof of purchase, the warranty period will be measured from the date of sale indicated within FIS records. If, during the warranty period, the product is not in good working order, FIS may, at its option, repair or replace it at no additional charge, except as is set forth below.

The warranty period for products sold and manufactured by FIS is as follows:
• All products, excluding test and fiber splicing equipment: 30 Days
• FIS manufactured test and fiber splicing equipment: 1 year
• Distributed test and fiber splicing equipment: Original manufacturer's warranty applies

Items Not Covered by Warranty

FIS does not warrant uninterrupted or error–free operation of product or equipment. Unless specified otherwise, FIS references the original equipment manufacturer's warranty and its subsequent requirements on non–Fiber Instrument Sales Inc. products. Any technical or other support provided for a product under warranty, such as assistance via telephone with "how–to" questions and those regarding use, setup and installation, will be provided WITHOUT WARRANTIES OF ANY KIND.

Extent of Warranty

The warranty does not cover the repair or exchange of a product resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by the customer, or failure caused by a product for which FIS is not responsible. The warranty may be voided by removal or alteration of product, parts, security or identification labels.

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Warranty Service

Warranty service may be obtained from FIS by returning a Return Material Authorization Form (RMA), during the warranty period for the FIS-manufactured product, to FIS's Quality Assurance Manager. The customer may be required to present proof of purchase or other similar proof of warranty entitlement. The customer may be responsible for any associated transportation charges, duties and insurance. The product, once arriving at FIS, will be evaluated to determine cause of failure, with warrantee action determined from evaluation.

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